

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	S1	S12	21.481	0.600	143.249	143.106	0.143	150.2	150	5.44	50.0
2.000	S11	S12	20.803	0.600	143.793	143.031	0.762	27.3	225	5.14	50.0
1.001	S12	S2	52.129	0.600	142.956	142.782	0.174	299.6	300	6.40	50.0
3.000	S13	S14	35.768	0.600	143.600	143.376	0.224	159.7	225	5.58	50.0
3.001	S14	S15	13.148	0.600	143.376	143.174	0.202	65.1	225	5.71	50.0
3.002	S15	S2	19.688	0.600	143.174	142.857	0.317	62.1	225	5.91	50.0
1.002	S2	S3	47.151	0.600	142.707	141.916	0.791	59.6	375	6.73	50.0
4.000	S82	S3	17.884	0.600	142.384	142.141	0.243	73.6	150	5.25	50.0
1.003	S3	S4	12.740	0.600	141.841	141.613	0.228	55.9	450	6.81	50.0
5.000	S81	S4	26.161	0.600	142.210	141.913	0.297	88.1	150	5.41	50.0
1.004	S4	S5	11.093	0.600	141.613	140.881	0.732	15.2	450	6.85	50.0
6.000	S49	S50	19.160	0.600	141.436	141.234	0.202	94.9	225	5.24	50.0
6.001	S50	S51	10.640	0.600	141.159	141.124	0.035	304.0	300	5.44	50.0
6.002	S51	S52	21.858	0.600	141.049	140.990	0.059	370.5	375	5.83	50.0
6.003	S52	S5	13.087	0.600	140.990	140.956	0.034	384.9	375	6.06	50.0
1.005	S5	S6	16.662	0.600	140.881	140.843	0.038	438.5	450	7.14	50.0
1.006	S6	S7	19.084	0.600	140.843	140.587	0.256	74.5	450	7.27	50.0
7.000	S48	S44	26.415	0.600	142.489	141.765	0.724	36.5	225	5.20	50.0
7.001	S44	S45	32.299	0.600	141.765	141.242	0.523	61.8	225	5.53	50.0
7.002	S45	S42	53.873	0.600	141.092	140.912	0.180	299.3	375	6.39	50.0
8.000	S41	S42	23.533	0.600	141.506	141.137	0.369	63.8	150	5.31	50.0
7.003	S42	S46	23.421	0.600	140.912	140.754	0.158	148.2	375	6.65	50.0
7.004	S46	S7	20.748	0.600	140.754	140.662	0.092	225.5	375	6.94	50.0
1.007	S7	S8	13.575	0.600	140.437	140.394	0.043	315.7	600	7.44	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)
1.000	0.817	14.4	4.4	1.200	1.580	0.032	0.0	57	0.717
2.000	2.513	99.9	10.1	1.200	1.580	0.074	0.0	48	1.623
1.001	0.903	63.8	26.2	1.580	1.246	0.193	0.0	134	0.860
3.000	1.032	41.0	9.9	1.333	1.200	0.073	0.0	75	0.853
3.001	1.623	64.5	19.4	1.200	1.275	0.143	0.0	85	1.428
3.002	1.662	66.1	21.5	1.275	1.246	0.159	0.0	88	1.491
1.002	2.350	259.6	71.2	1.246	1.200	0.526	0.0	134	2.015
4.000	1.173	20.7	2.1	1.200	1.200	0.015	0.0	32	0.751
1.003	2.724	433.2	75.6	1.200	1.200	0.558	0.0	126	2.066
5.000	1.071	18.9	5.1	1.200	1.200	0.038	0.0	54	0.915
1.004	5.242	833.7	84.5	1.200	1.728	0.623	0.0	95	3.412
6.000	1.343	53.4	11.6	1.200	1.200	0.086	0.0	71	1.076
6.001	0.896	63.4	15.6	1.200	1.281	0.115	0.0	101	0.745
6.002	0.935	103.3	21.3	1.281	1.753	0.157	0.0	115	0.743
6.003	0.917	101.3	21.3	1.753	1.728	0.157	0.0	116	0.731
1.005	0.964	153.4	110.6	1.728	1.454	0.816	0.0	283	1.046
1.006	2.356	374.8	114.5	1.454	1.400	0.845	0.0	170	2.081
7.000	2.172	86.4	10.6	1.300	1.300	0.078	0.0	53	1.489
7.001	1.667	66.3	18.9	1.300	1.350	0.139	0.0	82	1.443
7.002	1.042	115.1	34.9	1.350	1.300	0.257	0.0	141	0.916
8.000	1.261	22.3	3.4	1.200	1.300	0.025	0.0	40	0.914
7.003	1.486	164.1	42.6	1.300	1.200	0.315	0.0	130	1.256
7.004	1.202	132.8	64.7	1.200	1.400	0.477	0.0	185	1.195
1.007	1.365	385.9	181.5	1.400	1.200	1.339	0.0	289	1.345

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)
1.008	S8	S24	30.137	0.600	140.394	139.770	0.624	48.3	600	7.58	50.0
9.000	S22	S23	20.082	0.600	140.973	140.524	0.449	44.7	150	5.22	50.0
9.001	S23	S24	34.563	0.600	140.449	140.145	0.304	113.7	225	5.69	50.0
1.009	S24	S9	21.878	0.600	139.770	139.530	0.240	91.2	600	7.72	50.0
1.010	S9	S10	18.246	0.600	139.530	139.500	0.030	608.2	600	8.03	50.0
1.012	S77	S78	54.548	0.600	139.500	139.495	0.005	10909.6	300	11.43	50.0
10.000	S80	S78	20.956	0.600	140.400	139.490	0.910	23.0	300	5.11	50.0
11.000	S16	S83	13.222	0.600	143.355	143.153	0.202	65.5	150	5.18	50.0
11.001	S83	S84	24.504	0.600	143.078	142.729	0.349	70.2	225	5.44	50.0
11.002	S84	S21	45.005	0.600	142.729	141.557	1.172	38.4	225	5.79	50.0
11.003	S21	S19	33.413	0.600	141.482	140.470	1.012	33.0	300	6.00	50.0
11.004	S19	S20	9.666	0.600	140.470	139.650	0.820	11.8	300	6.03	50.0
1.014	S79	S86	19.815	0.600	139.495	139.429	0.066	300.0	300	5.37	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)
1.008	3.509	992.3	187.8	1.200	1.300	1.385	0.0	175	2.729
9.000	1.508	26.7	4.6	1.200	1.199	0.034	0.0	42	1.130
9.001	1.225	48.7	8.7	1.199	1.300	0.064	0.0	64	0.928
1.009	2.551	721.2	198.5	1.300	1.154	1.465	0.0	214	2.193
1.010	0.980	277.1	221.1	1.154	1.400	1.632	0.0	407	1.083
1.012	0.141	10.0	0.0	1.700	1.705	0.000	0.0	0	0.000
10.000	3.290	232.5	0.0	0.800	1.710	0.000	0.0	0	0.000
11.000	1.245	22.0	8.8	1.200	1.250	0.065	0.0	66	1.176
11.001	1.562	62.1	10.1	1.250	1.200	0.075	0.0	61	1.157
11.002	2.117	84.2	22.4	1.200	1.250	0.165	0.0	79	1.794
11.003	2.745	194.0	27.3	1.250	1.000	0.201	0.0	75	1.954
11.004	4.603	325.4	32.5	1.000	1.550	0.240	0.0	64	2.980
1.014	0.902	63.8	0.0	1.705	3.501	0.000	0.0	0	0.000

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	21.481	150.2	150	Circular	144.599	143.249	1.200	144.836	143.106	1.580
2.000	20.803	27.3	225	Circular	145.218	143.793	1.200	144.836	143.031	1.580
1.001	52.129	299.6	300	Circular	144.836	142.956	1.580	144.328	142.782	1.246
3.000	35.768	159.7	225	Circular	145.158	143.600	1.333	144.801	143.376	1.200
3.001	13.148	65.1	225	Circular	144.801	143.376	1.200	144.674	143.174	1.275
3.002	19.688	62.1	225	Circular	144.674	143.174	1.275	144.328	142.857	1.246
1.002	47.151	59.6	375	Circular	144.328	142.707	1.246	143.491	141.916	1.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S1	1350	Manhole	Adoptable	S12	1200	Manhole	Adoptable
2.000	S11	1350	Manhole	Adoptable	S12	1200	Manhole	Adoptable
1.001	S12	1200	Manhole	Adoptable	S2	1350	Manhole	Adoptable
3.000	S13	1350	Manhole	Adoptable	S14	1350	Manhole	Adoptable
3.001	S14	1350	Manhole	Adoptable	S15	1350	Manhole	Adoptable
3.002	S15	1350	Manhole	Adoptable	S2	1350	Manhole	Adoptable
1.002	S2	1350	Manhole	Adoptable	S3	1350	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	17.884	73.6	150	Circular	143.734	142.384	1.200	143.491	142.141	1.200
1.003	12.740	55.9	450	Circular	143.491	141.841	1.200	143.263	141.613	1.200
5.000	26.161	88.1	150	Circular	143.560	142.210	1.200	143.263	141.913	1.200
1.004	11.093	15.2	450	Circular	143.263	141.613	1.200	143.059	140.881	1.728
6.000	19.160	94.9	225	Circular	142.861	141.436	1.200	142.659	141.234	1.200
6.001	10.640	304.0	300	Circular	142.659	141.159	1.200	142.705	141.124	1.281
6.002	21.858	370.5	375	Circular	142.705	141.049	1.281	143.118	140.990	1.753
6.003	13.087	384.9	375	Circular	143.118	140.990	1.753	143.059	140.956	1.728
1.005	16.662	438.5	450	Circular	143.059	140.881	1.728	142.747	140.843	1.454
1.006	19.084	74.5	450	Circular	142.747	140.843	1.454	142.437	140.587	1.400
7.000	26.415	36.5	225	Circular	144.014	142.489	1.300	143.290	141.765	1.300
7.001	32.299	61.8	225	Circular	143.290	141.765	1.300	142.817	141.242	1.350
7.002	53.873	299.3	375	Circular	142.817	141.092	1.350	142.587	140.912	1.300
8.000	23.533	63.8	150	Circular	142.856	141.506	1.200	142.587	141.137	1.300
7.003	23.421	148.2	375	Circular	142.587	140.912	1.300	142.329	140.754	1.200
7.004	20.748	225.5	375	Circular	142.329	140.754	1.200	142.437	140.662	1.400
1.007	13.575	315.7	600	Circular	142.437	140.437	1.400	142.194	140.394	1.200
1.008	30.137	48.3	600	Circular	142.194	140.394	1.200	141.670	139.770	1.300
9.000	20.082	44.7	150	Circular	142.323	140.973	1.200	141.873	140.524	1.199
9.001	34.563	113.7	225	Circular	141.873	140.449	1.199	141.670	140.145	1.300
1.009	21.878	91.2	600	Circular	141.670	139.770	1.300	141.284	139.530	1.154
1.010	18.246	608.2	600	Circular	141.284	139.530	1.154	141.500	139.500	1.400
1.012	54.548	10909.6	300	Circular	141.500	139.500	1.700	141.500	139.495	1.705
10.000	20.956	23.0	300	Circular	141.500	140.400	0.800	141.500	139.490	1.710
11.000	13.222	65.5	150	Circular	144.705	143.355	1.200	144.553	143.153	1.250

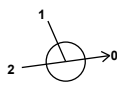
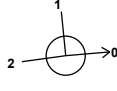
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
4.000	S82	1350	Manhole	Adoptable	S3	1350	Manhole	Adoptable
1.003	S3	1350	Manhole	Adoptable	S4	1350	Manhole	Adoptable
5.000	S81	1350	Manhole	Adoptable	S4	1350	Manhole	Adoptable
1.004	S4	1350	Manhole	Adoptable	S5	1200	Manhole	Adoptable
6.000	S49	1350	Manhole	Adoptable	S50	1350	Manhole	Adoptable
6.001	S50	1350	Manhole	Adoptable	S51	1350	Manhole	Adoptable
6.002	S51	1350	Manhole	Adoptable	S52	1200	Manhole	Adoptable
6.003	S52	1200	Manhole	Adoptable	S5	1200	Manhole	Adoptable
1.005	S5	1200	Manhole	Adoptable	S6	1350	Manhole	Adoptable
1.006	S6	1350	Manhole	Adoptable	S7	1350	Manhole	Adoptable
7.000	S48	1350	Manhole	Adoptable	S44	1350	Manhole	Adoptable
7.001	S44	1350	Manhole	Adoptable	S45	1350	Manhole	Adoptable
7.002	S45	1350	Manhole	Adoptable	S42	1350	Manhole	Adoptable
8.000	S41	1350	Manhole	Adoptable	S42	1350	Manhole	Adoptable
7.003	S42	1350	Manhole	Adoptable	S46	1350	Manhole	Adoptable
7.004	S46	1350	Manhole	Adoptable	S7	1350	Manhole	Adoptable
1.007	S7	1350	Manhole	Adoptable	S8	1350	Manhole	Adoptable
1.008	S8	1350	Manhole	Adoptable	S24	1350	Manhole	Adoptable
9.000	S22	1350	Manhole	Adoptable	S23	1350	Manhole	Adoptable
9.001	S23	1350	Manhole	Adoptable	S24	1350	Manhole	Adoptable
1.009	S24	1350	Manhole	Adoptable	S9	1350	Manhole	Adoptable
1.010	S9	1350	Manhole	Adoptable	S10	1200	Manhole	Adoptable
1.012	S77	1350	Manhole	Adoptable	S78	1350	Manhole	Adoptable
10.000	S80	1350	Manhole	Adoptable	S78	1350	Manhole	Adoptable
11.000	S16	1350	Manhole	Adoptable	S83	1350	Manhole	Adoptable

Pipeline Schedule

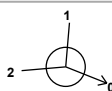
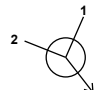
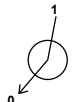
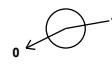
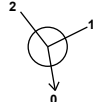
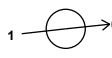
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
11.001	24.504	70.2	225	Circular	144.553	143.078	1.250	144.154	142.729	1.200
11.002	45.005	38.4	225	Circular	144.154	142.729	1.200	143.032	141.557	1.250
11.003	33.413	33.0	300	Circular	143.032	141.482	1.250	141.770	140.470	1.000
11.004	9.666	11.8	300	Circular	141.770	140.470	1.000	141.500	139.650	1.550
1.014	19.815	300.0	300	Circular	141.500	139.495	1.705	143.230	139.429	3.501

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
11.001	S83	1350	Manhole	Adoptable	S84	1350	Manhole	Adoptable
11.002	S84	1350	Manhole	Adoptable	S21	1350	Manhole	Adoptable
11.003	S21	1350	Manhole	Adoptable	S19	1350	Manhole	Adoptable
11.004	S19	1350	Manhole	Adoptable	S20	1350	Manhole	Adoptable
1.014	S79	1200	Manhole	Adoptable	S86	1200	Manhole	Adoptable

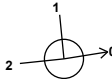
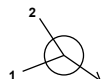
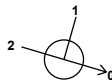
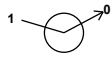
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S1	538300.259	236233.963	144.599	1.350	1350		0	1.000	143.249	150
S11	538313.195	236255.880	145.218	1.425	1350		0	2.000	143.793	225
S12	538321.548	236236.828	144.836	1.880	1200		1	2.000	143.031	225
							2	1.000	143.106	150
							0	1.001	142.956	300
S13	538370.620	236311.985	145.158	1.558	1350		0	3.000	143.600	225
S14	538373.940	236276.371	144.801	1.425	1350		1	3.000	143.376	225
							0	3.001	143.376	225
S15	538371.242	236263.503	144.674	1.500	1350		1	3.001	143.174	225
							0	3.002	143.174	225
S2	538373.193	236243.912	144.328	1.621	1350		1	3.002	142.857	225
							2	1.001	142.782	300
							0	1.002	142.707	375
S82	538421.682	236265.774	143.734	1.350	1350		0	4.000	142.384	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections		Link	IL (m)	Dia (mm)
S3	538420.170	236247.954	143.491	1.650	1350		1	4.000	142.141	150
							2	1.002	141.916	375
							0	1.003	141.841	450
S81	538442.509	236267.206	143.560	1.350	1350		0	5.000	142.210	150
S4	538432.008	236243.245	143.263	1.650	1350		1	5.000	141.913	150
							2	1.003	141.613	450
							0	1.004	141.613	450
S49	538482.582	236271.011	142.861	1.425	1350		0	6.000	141.436	225
S50	538478.987	236252.191	142.659	1.500	1350		1	6.000	141.234	225
							0	6.001	141.159	300
S51	538472.072	236244.104	142.705	1.656	1350		1	6.001	141.124	300
							0	6.002	141.049	375
S52	538450.545	236240.314	143.118	2.128	1200		1	6.002	140.990	375
							0	6.003	140.990	375
S5	538438.824	236234.493	143.059	2.178	1200		1	6.003	140.956	375
							2	1.004	140.881	450
							0	1.005	140.881	450
S6	538441.646	236218.072	142.747	1.904	1350		1	1.005	140.843	450
							0	1.006	140.843	450
S48	538321.124	236208.043	144.014	1.525	1350		0	7.000	142.489	225
S44	538323.982	236181.783	143.290	1.525	1350		1	7.000	141.765	225
							0	7.001	141.765	225
S45	538356.080	236185.378	142.817	1.725	1350		1	7.001	141.242	225
							0	7.002	141.092	375
S41	538407.381	236214.386	142.856	1.350	1350		0	8.000	141.506	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S42	538409.663	236190.964	142.587	1.675	1350		1	8.000	141.137	150
							2	7.002	140.912	375
							0	7.003	140.912	375
S46	538432.790	236194.664	142.329	1.575	1350		1	7.003	140.754	375
							0	7.004	140.754	375
S7	538452.146	236202.136	142.437	2.000	1350		1	7.004	140.662	375
							2	1.006	140.587	450
							0	1.007	140.437	600
S8	538463.298	236194.396	142.194	1.800	1350		1	1.007	140.394	600
							0	1.008	140.394	600
S22	538482.371	236224.714	142.323	1.350	1350					
							0	9.000	140.973	150
S23	538501.647	236219.082	141.873	1.424	1350		1	9.000	140.524	150
							0	9.001	140.449	225
S24	538492.194	236185.837	141.670	1.900	1350		1	9.001	140.145	225
							2	1.008	139.770	600
							0	1.009	139.770	600
S9	538513.171	236179.624	141.284	1.754	1350		1	1.009	139.530	600
							0	1.010	139.530	600
S10	538529.280	236188.193	141.500	2.000	1200		1	1.010	139.500	600
S77	538548.573	236255.111	141.500	2.000	1350					
							0	1.012	139.500	300
S80	538571.508	236308.540	141.500	1.100	1350					
							0	10.000	140.400	300
S78	538550.580	236309.622	141.500	2.010	1350		1	10.000	139.490	300
							2	1.012	139.495	300
S16	538411.391	236311.968	144.705	1.350	1350					
							0	11.000	143.355	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S83	538424.301	236309.112	144.553	1.475	1350	1 0	11.000	143.153	150
S84	538448.683	236306.668	144.154	1.425	1350	1 0	11.001	143.078	225
S21	538493.681	236305.882	143.032	1.550	1350	1 0	11.002	142.729	225
S19	538525.767	236296.558	141.770	1.300	1350	1 0	11.003	141.557	225
S20	538528.392	236305.861	141.500	1.998	1350	1 0	11.004	141.482	300
S79	538512.655	236310.784	141.500	2.005	1200	0 1	11.004	140.470	300
S86	538492.851	236311.416	143.230	3.801	1200	0 1	1.014	139.495	300
						1 0	1.014	139.429	300

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
FSR Region	England and Wales	Skip Steady State	x
M5-60 (mm)	20.000	Drain Down Time (mins)	2000
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
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
10	0	0	0
30	0	0	0
100	0	0	0
100	40	0	0

Node S79 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	70.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	139.495	Main Channel Slope (1:X)	9999.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.010

Inlets

S78 | S20

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	213.8	0.0	0.600	393.9	0.0	1.200	599.8	0.0	1.800	834.5	0.0
0.100	241.6	0.0	0.700	426.4	0.0	1.300	636.7	0.0	1.900	877.4	0.0
0.200	270.7	0.0	0.800	459.6	0.0	1.400	674.4	0.0	2.000	1150.5	0.0
0.300	300.4	0.0	0.900	493.6	0.0	1.500	713.0	0.0			
0.400	330.9	0.0	1.000	528.2	0.0	1.600	752.5	0.0			
0.500	362.0	0.0	1.100	563.6	0.0	1.700	792.9	0.0			

Node S80 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	140.400
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	1440

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	158.5	0.0	0.300	278.1	0.0	0.600	404.1	0.0	0.900	535.5	0.0
0.100	197.2	0.0	0.400	319.5	0.0	0.700	447.3	0.0	1.000	580.5	0.0
0.200	237.4	0.0	0.500	361.5	0.0	0.800	491.1	0.0	1.100	915.8	0.0

Node S77 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	100.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	139.500	Main Channel Slope (1:X)	9999.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.010

Inlets

S10

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	443.7	0.0	0.600	574.9	0.0	1.200	717.9	0.0	1.800	872.6	0.0
0.100	464.4	0.0	0.700	598.0	0.0	1.300	742.9	0.0	1.900	899.6	0.0
0.200	485.9	0.0	0.800	621.3	0.0	1.400	768.1	0.0	2.000	926.9	0.0
0.300	507.7	0.0	0.900	645.0	0.0	1.500	793.7	0.0			
0.400	529.8	0.0	1.000	669.0	0.0	1.600	819.6	0.0			
0.500	552.2	0.0	1.100	693.3	0.0	1.700	845.9	0.0			

Node S86 Deep Bore Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	139.343	Borehole Diameter	0.300
Side Inf Coefficient (m/hr)	0.09000	Time to half empty (mins)	489	Borehole Depth (m)	21.500
Safety Factor	3.0	Diameter (m)	1.800	Inf Depth (m)	19.800
Porosity	1.00	Depth (m)		Number Required	22

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	143.336	0.087	8.9	0.1239	0.0000	OK
15 minute winter	S11	10	143.861	0.068	20.3	0.0977	0.0000	OK
15 minute winter	S12	11	143.165	0.209	52.2	0.2362	0.0000	OK
15 minute winter	S13	10	143.709	0.109	19.9	0.1564	0.0000	OK
15 minute winter	S14	10	143.514	0.138	38.8	0.1973	0.0000	OK
15 minute winter	S15	11	143.315	0.141	42.3	0.2014	0.0000	OK
15 minute winter	S2	11	142.911	0.204	137.6	0.2919	0.0000	OK
15 minute winter	S82	10	142.431	0.047	4.2	0.0666	0.0000	OK
15 minute winter	S3	11	142.051	0.210	146.7	0.3010	0.0000	OK
15 minute winter	S81	10	142.290	0.080	10.3	0.1149	0.0000	OK
15 minute winter	S4	11	141.756	0.143	164.0	0.2047	0.0000	OK
15 minute winter	S49	10	141.545	0.109	23.3	0.1561	0.0000	OK
15 minute winter	S50	11	141.325	0.166	30.9	0.2372	0.0000	OK
15 minute winter	S51	11	141.293	0.244	41.6	0.3495	0.0000	OK
15 minute winter	S52	11	141.281	0.291	38.9	0.3289	0.0000	OK
15 minute winter	S5	11	141.273	0.392	211.2	0.4429	0.0000	OK
15 minute winter	S6	11	141.124	0.281	217.4	0.4026	0.0000	OK
15 minute winter	S48	10	142.565	0.075	21.3	0.1080	0.0000	OK
15 minute winter	S44	10	141.890	0.125	37.7	0.1791	0.0000	OK
15 minute winter	S45	10	141.307	0.215	69.0	0.3072	0.0000	OK
15 minute winter	S41	10	141.564	0.058	6.9	0.0832	0.0000	OK
15 minute winter	S42	11	141.125	0.213	83.2	0.3048	0.0000	OK
15 minute winter	S46	11	141.064	0.310	124.7	0.4431	0.0000	OK
15 minute winter	S7	11	140.832	0.395	345.3	0.5648	0.0000	OK
15 minute winter	S8	11	140.664	0.270	356.1	0.3868	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	S1	1.000	S12	8.6	0.841	0.593	0.2201
15 minute winter	S11	2.000	S12	20.2	1.610	0.202	0.3580
15 minute winter	S12	1.001	S2	50.6	1.065	0.793	2.4735
15 minute winter	S13	3.000	S14	19.6	0.878	0.477	0.7976
15 minute winter	S14	3.001	S15	38.1	1.483	0.590	0.3379
15 minute winter	S15	3.002	S2	42.4	1.699	0.641	0.4907
15 minute winter	S2	1.002	S3	138.5	2.349	0.533	2.7800
15 minute winter	S82	4.000	S3	4.1	0.902	0.198	0.0815
15 minute winter	S3	1.003	S4	146.9	2.545	0.339	0.7386
15 minute winter	S81	5.000	S4	10.0	1.071	0.529	0.2452
15 minute winter	S4	1.004	S5	164.1	1.709	0.197	1.0523
15 minute winter	S49	6.000	S50	23.0	1.254	0.430	0.3507
15 minute winter	S50	6.001	S51	30.1	0.876	0.476	0.4302
15 minute winter	S51	6.002	S52	38.9	0.664	0.377	1.8326
15 minute winter	S52	6.003	S5	41.8	0.550	0.413	1.2497
15 minute winter	S5	1.005	S6	209.9	1.665	1.369	2.0882
15 minute winter	S6	1.006	S7	216.6	2.282	0.578	1.8349
15 minute winter	S48	7.000	S44	21.1	1.235	0.245	0.4536
15 minute winter	S44	7.001	S45	36.7	1.680	0.554	0.7091
15 minute winter	S45	7.002	S42	68.5	1.069	0.595	3.4892
15 minute winter	S41	8.000	S42	6.7	1.090	0.302	0.1454
15 minute winter	S42	7.003	S46	83.1	1.023	0.506	1.8964
15 minute winter	S46	7.004	S7	124.4	1.385	0.937	1.8567
15 minute winter	S7	1.007	S8	344.3	2.160	0.892	2.1698
15 minute winter	S8	1.008	S24	354.8	2.264	0.358	4.7368

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S22	10	141.035	0.062	9.2	0.0893	0.0000	OK
15 minute winter	S23	11	140.543	0.094	17.4	0.1342	0.0000	OK
15 minute winter	S24	11	140.155	0.385	375.7	0.5515	0.0000	OK
1440 minute winter	S9	1380	140.126	0.596	21.6	0.8531	0.0000	OK
1440 minute winter	S10	1380	140.125	0.625	24.4	0.7069	0.0000	OK
1440 minute winter	S77	1380	140.125	0.625	14.6	0.8945	0.0000	SURCHARGED
15 minute summer	S80	1	140.400	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S78	1380	140.125	0.635	8.9	0.9081	0.0000	OK
15 minute winter	S16	10	143.466	0.111	17.8	0.1582	0.0000	OK
15 minute winter	S83	10	143.166	0.088	20.1	0.1256	0.0000	OK
15 minute winter	S84	10	142.847	0.118	44.6	0.1694	0.0000	OK
15 minute winter	S21	11	141.594	0.112	53.2	0.1608	0.0000	OK
15 minute winter	S19	11	140.570	0.100	63.3	0.1434	0.0000	OK
1440 minute winter	S20	1380	140.124	0.622	3.1	0.8902	0.0000	OK
1440 minute winter	S79	1380	140.124	0.629	9.2	0.7113	0.0000	SURCHARGED
1440 minute winter	S86	1380	140.124	0.695	9.0	78.2601	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	S22	9.000	S23	9.1	1.338	0.340	0.1359
15 minute winter	S23	9.001	S24	17.0	1.109	0.349	0.5304
15 minute winter	S24	1.009	S9	375.8	1.818	0.521	4.5434
1440 minute winter	S9	1.010	S10	24.4	0.496	0.088	5.1365
1440 minute winter	S10	Flow through pond	S77	14.6	0.053	0.001	316.6749
1440 minute winter	S77	1.012	S78	8.9	0.372	0.889	3.8412
15 minute summer	S80	10.000	S78	0.0	0.000	0.000	0.5580
1440 minute winter	S78	Flow through pond	S79	9.2	0.040	0.001	191.2534
15 minute winter	S16	11.000	S83	17.5	1.321	0.797	0.1753
15 minute winter	S83	11.001	S84	19.9	1.126	0.321	0.4347
15 minute winter	S84	11.002	S21	43.8	2.116	0.520	0.9317
15 minute winter	S21	11.003	S19	53.3	2.387	0.275	0.7464
15 minute winter	S19	11.004	S20	63.6	3.338	0.195	0.1844
1440 minute winter	S20	Flow through pond	S79	9.2	0.040	0.001	191.2534
1440 minute winter	S79	1.014	S86	9.0	0.617	0.142	1.3954
1440 minute winter	S86	Infiltration		3.4			

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	10	143.351	0.102	11.2	0.1458	0.0000	OK
15 minute winter	S11	10	143.870	0.077	25.8	0.1108	0.0000	OK
15 minute winter	S12	11	143.210	0.253	66.3	0.2867	0.0000	OK
15 minute winter	S13	10	143.726	0.125	25.2	0.1796	0.0000	OK
15 minute winter	S14	10	143.542	0.165	49.3	0.2368	0.0000	OK
15 minute winter	S15	11	143.342	0.168	53.7	0.2409	0.0000	OK
15 minute winter	S2	11	142.946	0.239	173.8	0.3414	0.0000	OK
15 minute winter	S82	10	142.437	0.053	5.4	0.0760	0.0000	OK
15 minute winter	S3	11	142.084	0.243	185.5	0.3474	0.0000	OK
15 minute winter	S81	10	142.304	0.094	13.1	0.1346	0.0000	OK
15 minute winter	S4	10	141.778	0.165	207.5	0.2366	0.0000	OK
15 minute winter	S49	10	141.563	0.127	29.6	0.1819	0.0000	OK
15 minute winter	S50	11	141.472	0.312	39.4	0.4471	0.0000	SURCHARGED
15 minute winter	S51	11	141.450	0.401	52.8	0.5740	0.0000	SURCHARGED
15 minute winter	S52	11	141.428	0.438	52.1	0.4957	0.0000	SURCHARGED
15 minute winter	S5	11	141.411	0.530	270.5	0.5997	0.0000	SURCHARGED
15 minute winter	S6	11	141.185	0.342	279.5	0.4899	0.0000	OK
15 minute winter	S48	10	142.575	0.086	27.0	0.1225	0.0000	OK
15 minute winter	S44	10	141.912	0.147	47.9	0.2105	0.0000	OK
15 minute winter	S45	10	141.344	0.252	87.5	0.3603	0.0000	OK
15 minute winter	S41	10	141.573	0.067	8.8	0.0956	0.0000	OK
15 minute winter	S42	11	141.200	0.288	105.5	0.4125	0.0000	OK
15 minute winter	S46	11	141.142	0.388	154.5	0.5545	0.0000	SURCHARGED
15 minute winter	S7	11	140.895	0.458	434.6	0.6552	0.0000	OK
15 minute winter	S8	11	140.711	0.317	446.3	0.4541	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	S1	1.000	S12	10.8	0.878	0.751	0.2739
15 minute winter	S11	2.000	S12	25.6	1.564	0.257	0.4723
15 minute winter	S12	1.001	S2	63.7	1.123	0.997	2.9315
15 minute winter	S13	3.000	S14	24.9	0.916	0.606	0.9666
15 minute winter	S14	3.001	S15	48.3	1.536	0.748	0.4134
15 minute winter	S15	3.002	S2	53.7	1.774	0.812	0.5954
15 minute winter	S2	1.002	S3	175.0	2.469	0.674	3.3412
15 minute winter	S82	4.000	S3	5.2	0.963	0.253	0.0975
15 minute winter	S3	1.003	S4	185.8	2.725	0.429	0.8893
15 minute winter	S81	5.000	S4	12.8	1.131	0.674	0.2961
15 minute winter	S4	1.004	S5	207.4	1.733	0.249	1.1716
15 minute winter	S49	6.000	S50	29.3	1.292	0.549	0.5768
15 minute winter	S50	6.001	S51	39.0	0.873	0.616	0.7493
15 minute winter	S51	6.002	S52	52.1	0.659	0.504	2.4109
15 minute winter	S52	6.003	S5	53.6	0.580	0.529	1.4435
15 minute winter	S5	1.005	S6	270.0	1.757	1.761	2.3980
15 minute winter	S6	1.006	S7	275.6	2.282	0.735	2.3375
15 minute winter	S48	7.000	S44	26.8	1.298	0.310	0.5460
15 minute winter	S44	7.001	S45	46.6	1.768	0.703	0.8560
15 minute winter	S45	7.002	S42	86.7	1.090	0.754	4.5558
15 minute winter	S41	8.000	S42	8.6	1.161	0.386	0.1745
15 minute winter	S42	7.003	S46	103.3	1.043	0.630	2.3564
15 minute winter	S46	7.004	S7	153.6	1.467	1.157	2.0890
15 minute winter	S7	1.007	S8	431.3	2.254	1.118	2.5928
15 minute winter	S8	1.008	S24	444.8	2.308	0.448	5.7603

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S22	10	141.045	0.072	11.7	0.1027	0.0000	OK
15 minute winter	S23	10	140.557	0.108	22.0	0.1542	0.0000	OK
1440 minute winter	S24	1410	140.286	0.516	23.4	0.7384	0.0000	OK
1440 minute winter	S9	1410	140.286	0.756	27.6	1.0818	0.0000	SURCHARGED
1440 minute winter	S10	1410	140.286	0.786	28.8	0.8890	0.0000	OK
1440 minute winter	S77	1410	140.286	0.786	18.0	1.1248	0.0000	SURCHARGED
15 minute summer	S80	1	140.400	0.000	0.0	0.0000	0.0000	OK
1440 minute winter	S78	1410	140.286	0.796	10.6	1.1385	0.0000	OK
15 minute winter	S16	11	143.514	0.158	22.6	0.2268	0.0000	SURCHARGED
15 minute winter	S83	10	143.178	0.100	24.9	0.1426	0.0000	OK
15 minute winter	S84	10	142.866	0.137	56.0	0.1965	0.0000	OK
15 minute winter	S21	10	141.610	0.128	67.2	0.1832	0.0000	OK
15 minute winter	S19	11	140.585	0.115	80.1	0.1641	0.0000	OK
1440 minute winter	S20	1410	140.285	0.783	3.8	1.1206	0.0000	OK
1440 minute winter	S79	1410	140.285	0.790	9.6	0.8935	0.0000	SURCHARGED
1440 minute winter	S86	1410	140.285	0.856	7.6	87.4575	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	S22	9.000	S23	11.5	1.421	0.432	0.1627
15 minute winter	S23	9.001	S24	21.6	1.178	0.443	0.6333
1440 minute winter	S24	1.009	S9	24.9	0.471	0.034	5.9017
1440 minute winter	S9	1.010	S10	28.8	0.552	0.104	5.1395
1440 minute winter	S10	Flow through pond	S77	18.0	0.055	0.002	412.8642
1440 minute winter	S77	1.012	S78	10.6	0.364	1.064	3.8412
15 minute summer	S80	10.000	S78	0.0	0.000	0.000	0.7138
1440 minute winter	S78	Flow through pond	S79	9.6	0.037	0.001	260.1334
15 minute winter	S16	11.000	S83	21.6	1.357	0.983	0.2255
15 minute winter	S83	11.001	S84	24.8	1.182	0.399	0.5186
15 minute winter	S84	11.002	S21	54.9	2.224	0.652	1.1113
15 minute winter	S21	11.003	S19	66.8	2.511	0.344	0.8913
15 minute winter	S19	11.004	S20	79.8	3.519	0.245	0.2194
1440 minute winter	S20	Flow through pond	S79	9.6	0.037	0.001	260.1334
1440 minute winter	S79	1.014	S86	7.6	0.628	0.119	1.3954
1440 minute winter	S86	Infiltration		3.4			

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	11	143.462	0.213	14.6	0.3050	0.0000	SURCHARGED
15 minute winter	S11	10	143.882	0.089	33.4	0.1272	0.0000	OK
15 minute winter	S12	11	143.315	0.359	83.8	0.4055	0.0000	SURCHARGED
15 minute winter	S13	11	143.758	0.158	32.7	0.2256	0.0000	OK
15 minute winter	S14	11	143.663	0.287	63.8	0.4110	0.0000	SURCHARGED
15 minute winter	S15	11	143.433	0.259	66.6	0.3707	0.0000	SURCHARGED
15 minute winter	S2	11	142.993	0.286	220.3	0.4086	0.0000	OK
15 minute winter	S82	10	142.445	0.061	6.9	0.0874	0.0000	OK
15 minute winter	S3	11	142.126	0.285	233.9	0.4071	0.0000	OK
15 minute winter	S81	10	142.324	0.114	17.0	0.1637	0.0000	OK
15 minute winter	S4	11	141.863	0.250	262.2	0.3575	0.0000	OK
15 minute winter	S49	11	141.827	0.391	38.4	0.5590	0.0000	SURCHARGED
15 minute winter	S50	11	141.719	0.560	47.4	0.8010	0.0000	SURCHARGED
15 minute winter	S51	11	141.690	0.640	63.5	0.9165	0.0000	SURCHARGED
15 minute winter	S52	11	141.659	0.668	63.2	0.7560	0.0000	SURCHARGED
15 minute winter	S5	11	141.637	0.756	337.1	0.8555	0.0000	SURCHARGED
15 minute winter	S6	11	141.342	0.499	347.1	0.7139	0.0000	SURCHARGED
15 minute winter	S48	10	142.588	0.099	35.1	0.1415	0.0000	OK
15 minute winter	S44	11	141.996	0.231	62.3	0.3304	0.0000	SURCHARGED
15 minute winter	S45	11	141.592	0.500	113.9	0.7154	0.0000	SURCHARGED
15 minute winter	S41	10	141.581	0.075	11.4	0.1079	0.0000	OK
15 minute winter	S42	11	141.415	0.503	128.7	0.7199	0.0000	SURCHARGED
15 minute winter	S46	11	141.281	0.527	199.5	0.7539	0.0000	SURCHARGED
15 minute winter	S7	11	140.995	0.558	553.1	0.7982	0.0000	OK
15 minute winter	S8	11	140.795	0.401	570.6	0.5733	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	S1	1.000	S12	13.4	0.857	0.930	0.3782
15 minute winter	S11	2.000	S12	33.2	1.622	0.333	0.5653
15 minute winter	S12	1.001	S2	81.5	1.201	1.278	3.2995
15 minute winter	S13	3.000	S14	32.2	0.938	0.785	1.2426
15 minute winter	S14	3.001	S15	59.6	1.563	0.924	0.5229
15 minute winter	S15	3.002	S2	64.8	1.832	0.980	0.7652
15 minute winter	S2	1.002	S3	220.3	2.566	0.849	4.0432
15 minute winter	S82	4.000	S3	6.8	1.029	0.326	0.1174
15 minute winter	S3	1.003	S4	234.0	2.666	0.540	1.2483
15 minute winter	S81	5.000	S4	16.5	1.184	0.870	0.3657
15 minute winter	S4	1.004	S5	261.0	1.861	0.313	1.3800
15 minute winter	S49	6.000	S50	35.0	1.299	0.656	0.7620
15 minute winter	S50	6.001	S51	45.8	0.924	0.723	0.7493
15 minute winter	S51	6.002	S52	63.2	0.671	0.612	2.4109
15 minute winter	S52	6.003	S5	65.3	0.628	0.645	1.4435
15 minute winter	S5	1.005	S6	334.7	2.113	2.182	2.6400
15 minute winter	S6	1.006	S7	345.9	2.315	0.923	2.9528
15 minute winter	S48	7.000	S44	34.9	1.359	0.404	0.7392
15 minute winter	S44	7.001	S45	60.8	1.793	0.917	1.2846
15 minute winter	S45	7.002	S42	104.4	1.097	0.908	5.9420
15 minute winter	S41	8.000	S42	11.3	1.202	0.506	0.3114
15 minute winter	S42	7.003	S46	130.8	1.186	0.797	2.5833
15 minute winter	S46	7.004	S7	200.3	1.818	1.509	2.2171
15 minute winter	S7	1.007	S8	551.1	2.332	1.428	3.2105
15 minute winter	S8	1.008	S24	565.4	2.304	0.570	7.2572

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S22	10	141.057	0.084	15.2	0.1208	0.0000	OK
15 minute winter	S23	10	140.576	0.127	28.6	0.1819	0.0000	OK
1440 minute winter	S24	1410	140.496	0.726	29.5	1.0384	0.0000	SURCHARGED
1440 minute winter	S9	1410	140.496	0.966	34.2	1.3818	0.0000	SURCHARGED
1440 minute winter	S10	1410	140.496	0.996	35.1	1.1261	0.0000	OK
1440 minute winter	S77	1410	140.496	0.996	22.7	1.4248	0.0000	SURCHARGED
1440 minute winter	S80	1410	140.495	0.095	1.4	16.9656	0.0000	OK
1440 minute winter	S78	1410	140.495	1.005	13.3	1.4383	0.0000	OK
15 minute winter	S16	11	143.701	0.346	29.3	0.4956	0.0000	SURCHARGED
15 minute winter	S83	11	143.196	0.118	32.2	0.1685	0.0000	OK
15 minute winter	S84	11	142.896	0.167	72.1	0.2384	0.0000	OK
15 minute winter	S21	11	141.631	0.149	86.6	0.2128	0.0000	OK
15 minute winter	S19	11	140.605	0.135	103.3	0.1929	0.0000	OK
1440 minute winter	S20	1410	140.495	0.993	4.8	1.4204	0.0000	OK
1440 minute winter	S79	1410	140.495	0.999	11.6	1.1304	0.0000	SURCHARGED
1440 minute winter	S86	1410	140.494	1.065	7.8	99.4216	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	S22	9.000	S23	15.0	1.511	0.561	0.1988
15 minute winter	S23	9.001	S24	28.4	1.197	0.582	1.0622
1440 minute winter	S24	1.009	S9	31.0	0.498	0.043	6.1625
1440 minute winter	S9	1.010	S10	35.1	0.578	0.127	5.1395
1440 minute winter	S10	Flow through pond	S77	22.7	0.039	0.002	547.3326
1440 minute winter	S77	1.012	S78	13.3	0.354	1.333	3.8412
1440 minute winter	S80	10.000	S78	-1.4	-0.034	-0.006	0.9387
1440 minute winter	S78	Flow through pond	S79	11.6	0.037	0.001	362.7805
15 minute winter	S16	11.000	S83	28.2	1.601	1.282	0.2304
15 minute winter	S83	11.001	S84	32.4	1.226	0.521	0.6438
15 minute winter	S84	11.002	S21	71.4	2.333	0.849	1.3780
15 minute winter	S21	11.003	S19	86.9	2.654	0.448	1.0946
15 minute winter	S19	11.004	S20	103.7	3.729	0.319	0.2976
1440 minute winter	S20	Flow through pond	S79	11.6	0.037	0.001	362.7805
1440 minute winter	S79	1.014	S86	7.8	0.631	0.122	1.3954
1440 minute winter	S86	Infiltration		3.4			

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S1	12	144.432	1.183	20.4	1.6926	0.0000	FLOOD RISK
15 minute winter	S11	12	144.383	0.590	46.8	0.8441	0.0000	SURCHARGED
15 minute winter	S12	12	144.246	1.290	108.4	1.4585	0.0000	SURCHARGED
15 minute winter	S13	12	144.869	1.269	45.8	1.8153	0.0000	FLOOD RISK
15 minute winter	S14	12	144.673	1.297	81.2	1.8566	0.0000	FLOOD RISK
15 minute winter	S15	12	144.347	1.173	81.2	1.6784	0.0000	SURCHARGED
15 minute winter	S2	12	143.796	1.089	272.2	1.5578	0.0000	SURCHARGED
15 minute winter	S82	12	142.890	0.506	9.7	0.7245	0.0000	SURCHARGED
15 minute winter	S3	12	142.854	1.013	277.8	1.4501	0.0000	SURCHARGED
15 minute winter	S81	12	142.984	0.774	23.9	1.1073	0.0000	SURCHARGED
15 minute winter	S4	12	142.686	1.073	304.1	1.5357	0.0000	SURCHARGED
15 minute winter	S49	12	142.781	1.345	53.8	1.9243	0.0000	FLOOD RISK
15 minute winter	S50	12	142.618	1.459	63.6	2.0882	0.0000	FLOOD RISK
15 minute winter	S51	12	142.572	1.523	85.4	2.1798	0.0000	FLOOD RISK
15 minute winter	S52	12	142.526	1.536	78.1	1.7371	0.0000	SURCHARGED
15 minute winter	S5	12	142.492	1.611	399.0	1.8224	0.0000	SURCHARGED
15 minute winter	S6	12	142.072	1.229	413.3	1.7582	0.0000	SURCHARGED
15 minute winter	S48	12	143.425	0.936	49.1	1.3396	0.0000	SURCHARGED
15 minute winter	S44	12	143.235	1.470	79.5	2.1034	0.0000	FLOOD RISK
15 minute winter	S45	12	142.505	1.413	137.2	2.0213	0.0000	SURCHARGED
15 minute winter	S41	12	142.386	0.880	16.0	1.2596	0.0000	SURCHARGED
15 minute winter	S42	12	142.231	1.319	161.1	1.8868	0.0000	SURCHARGED
15 minute winter	S46	12	142.017	1.262	253.2	1.8066	0.0000	SURCHARGED
15 minute winter	S7	12	141.579	1.142	666.2	1.6344	0.0000	SURCHARGED
15 minute winter	S8	12	141.310	0.916	689.3	1.3112	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
15 minute winter	S1	1.000	S12	20.6	1.170	1.426	0.3782
15 minute winter	S11	2.000	S12	42.8	1.638	0.428	0.8274
15 minute winter	S12	1.001	S2	95.5	1.358	1.497	3.6709
15 minute winter	S13	3.000	S14	37.0	0.947	0.902	1.4225
15 minute winter	S14	3.001	S15	71.4	1.795	1.106	0.5229
15 minute winter	S15	3.002	S2	81.3	2.045	1.230	0.7830
15 minute winter	S2	1.002	S3	261.1	2.551	1.006	5.2006
15 minute winter	S82	4.000	S3	12.5	1.092	0.605	0.3148
15 minute winter	S3	1.003	S4	273.0	2.608	0.630	2.0186
15 minute winter	S81	5.000	S4	19.4	1.182	1.023	0.4606
15 minute winter	S4	1.004	S5	303.9	1.918	0.365	1.7576
15 minute winter	S49	6.000	S50	46.0	1.302	0.862	0.7620
15 minute winter	S50	6.001	S51	58.8	0.943	0.929	0.7493
15 minute winter	S51	6.002	S52	78.1	0.708	0.756	2.4109
15 minute winter	S52	6.003	S5	77.9	0.710	0.769	1.4435
15 minute winter	S5	1.005	S6	398.9	2.518	2.601	2.6400
15 minute winter	S6	1.006	S7	413.5	2.610	1.103	3.0237
15 minute winter	S48	7.000	S44	43.4	1.406	0.502	1.0506
15 minute winter	S44	7.001	S45	71.7	1.804	1.082	1.2846
15 minute winter	S45	7.002	S42	132.7	1.203	1.153	5.9420
15 minute winter	S41	8.000	S42	16.0	1.133	0.719	0.4143
15 minute winter	S42	7.003	S46	162.8	1.477	0.992	2.5833
15 minute winter	S46	7.004	S7	249.7	2.264	1.880	2.2884
15 minute winter	S7	1.007	S8	666.7	2.367	1.728	3.8238
15 minute winter	S8	1.008	S24	689.7	2.449	0.695	8.4889

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.34%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S22	12	141.255	0.282	21.3	0.4033	0.0000	SURCHARGED
15 minute winter	S23	12	141.019	0.570	37.7	0.8160	0.0000	SURCHARGED
15 minute winter	S24	12	140.858	1.088	730.1	1.5574	0.0000	SURCHARGED
1440 minute winter	S9	1410	140.805	1.275	45.6	1.8245	0.0000	SURCHARGED
1440 minute winter	S10	1410	140.805	1.305	45.5	1.4759	0.0000	OK
1440 minute winter	S77	1410	140.805	1.305	32.2	1.8674	0.0000	SURCHARGED
1440 minute winter	S80	1440	140.805	0.405	6.9	97.2321	0.0000	SURCHARGED
1440 minute winter	S78	1440	140.805	1.315	21.3	1.8812	0.0000	OK
15 minute winter	S16	11	144.134	0.779	41.0	1.1148	0.0000	SURCHARGED
15 minute winter	S83	12	143.443	0.365	44.0	0.5221	0.0000	SURCHARGED
15 minute winter	S84	11	143.266	0.537	95.8	0.7687	0.0000	SURCHARGED
15 minute winter	S21	11	141.655	0.173	111.2	0.2481	0.0000	OK
1440 minute winter	S19	1440	140.804	0.334	6.8	0.4780	0.0000	SURCHARGED
1440 minute winter	S20	1440	140.804	1.302	6.8	1.8633	0.0000	OK
1440 minute winter	S79	1440	140.804	1.309	15.6	1.4805	0.0000	SURCHARGED
1440 minute winter	S86	1440	140.804	1.375	8.8	117.1022	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	S22	9.000	S23	19.1	1.584	0.716	0.3535
15 minute winter	S23	9.001	S24	33.1	1.215	0.680	1.3746
15 minute winter	S24	1.009	S9	730.1	2.592	1.012	6.1625
1440 minute winter	S9	1.010	S10	45.5	0.633	0.164	5.1395
1440 minute winter	S10	Flow through pond	S77	32.2	0.050	0.003	765.3201
1440 minute winter	S77	1.012	S78	21.3	0.367	2.128	3.8412
1440 minute winter	S80	10.000	S78	-6.9	-0.148	-0.030	1.4757
1440 minute winter	S78	Flow through pond	S79	15.6	0.038	0.002	542.9948
15 minute winter	S16	11.000	S83	38.0	2.158	1.727	0.2328
15 minute winter	S83	11.001	S84	46.5	1.213	0.749	0.9746
15 minute winter	S84	11.002	S21	89.9	2.408	1.068	1.7898
15 minute winter	S21	11.003	S19	110.7	2.777	0.570	1.3388
1440 minute winter	S19	11.004	S20	6.8	1.246	0.021	0.6807
1440 minute winter	S20	Flow through pond	S79	15.6	0.038	0.002	542.9948
1440 minute winter	S79	1.014	S86	8.8	0.654	0.137	1.3954
1440 minute winter	S86	Infiltration		3.4			