

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	10	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)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	0.750	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	x

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SW50	0.034	5.00	140.933	1350	538570.789	236207.298	1.425
SW51	0.062	5.00	140.674	1350	538569.964	236197.730	1.625
SW52			140.230	1350	538566.538	236169.938	1.420
SW53	0.079	5.00	140.801	1350	538543.568	236168.937	1.421
SW54	0.067	5.00	140.217	1350	538562.841	236160.981	1.531
SW55	0.023	5.00	138.959	1350	538597.748	236119.587	1.118
SW56	0.031	5.00	139.237	1350	538581.351	236126.838	1.486
SW57	0.065	5.00	139.404	1350	538590.801	236149.280	1.925
SW58	0.145	5.00	139.987	1350	538626.670	236215.142	1.481
SW59	0.025	5.00	139.547	1350	538624.117	236186.089	1.500
SW60	0.026	5.00	139.366	1350	538621.880	236174.590	1.500
SW61	0.024	5.00	138.897	1350	538608.261	236141.976	2.190
SW62	0.015	5.00	138.637	1350	538617.759	236139.465	2.169
SW63	0.040	5.00	137.999	1500	538636.967	236137.819	1.927
SW64	0.055	5.00	137.361	1500	538654.652	236138.661	1.466
SW65	0.020	5.00	137.789	1500	538657.999	236151.858	1.947
SW66			138.083	1500	538664.713	236161.443	2.270
SW68	0.107	5.00	138.900	1500	538695.083	236200.100	3.210
SW69	0.047	5.00	141.671	1350	538610.583	236304.702	1.512
SW70	0.020	5.00	141.683	1350	538627.413	236303.135	1.609
SW71			141.285	1350	538643.597	236304.743	1.427
SW72	0.066	5.00	141.172	1350	538647.224	236302.015	1.431
SW73	0.038	5.00	140.744	1350	538644.426	236273.409	1.500
SW74	0.017	5.00	140.530	1350	538641.207	236259.089	1.491
SW75	0.064	5.00	141.375	1350	538570.943	236236.193	1.425
SW76	0.011	5.00	140.956	1350	538592.971	236234.100	1.425
SW77	0.048	5.00	140.691	1350	538607.226	236234.965	1.425
SW78	0.059	5.00	140.204	1350	538638.803	236232.114	1.575
SW79	0.060	5.00	139.707	1350	538660.357	236229.965	1.575
SW80			139.460	1350	538672.751	236225.212	1.660
SW81	0.016	5.00	138.848	1500	538702.659	236213.741	3.197
SW82			137.500	1500	538723.271	236229.038	2.000
SW83	0.022	5.00	140.493	1350	538683.889	236286.393	1.349
SW84	0.019	5.00	139.881	1350	538704.516	236283.400	1.350
SW85	0.025	5.00	139.746	1350	538712.494	236276.059	1.350
SW86	0.028	5.00	139.558	1350	538712.901	236261.294	1.350
SW87	0.025	5.00	139.338	1350	538711.197	236244.206	1.350
SW88			137.500	1200	538724.778	236241.948	2.000
SW89		5.00	137.500	1200	538734.464	236243.676	2.000
SW107			138.709	1200	538742.540	236237.108	3.209

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	SW50	SW51	9.604	0.600	139.508	139.049	0.459	20.9	225	5.06	50.0
1.001	SW51	SW52	28.002	0.600	139.049	138.810	0.239	117.2	225	5.44	50.0
1.002	SW52	SW54	9.690	0.600	138.810	138.761	0.049	197.8	225	5.62	50.0
2.000	SW53	SW54	20.850	0.600	139.380	138.761	0.619	33.7	225	5.15	50.0
1.003	SW54	SW57	30.310	0.600	138.686	137.554	1.132	26.8	300	5.78	50.0
3.000	SW55	SW56	17.929	0.600	137.841	137.751	0.090	199.2	225	5.32	50.0
3.001	SW56	SW57	24.350	0.600	137.751	137.629	0.122	199.6	225	5.76	50.0
1.004	SW57	SW61	18.926	0.600	137.479	136.707	0.772	24.5	375	5.87	50.0
4.000	SW58	SW59	29.165	0.600	138.506	138.047	0.459	63.5	300	5.25	50.0
4.001	SW59	SW60	11.715	0.600	138.047	137.866	0.181	64.7	300	5.35	50.0
4.002	SW60	SW61	35.343	0.600	137.866	137.402	0.464	76.2	300	5.67	50.0
1.005	SW61	SW62	9.824	0.600	136.707	136.543	0.164	59.9	375	5.94	50.0
1.006	SW62	SW63	19.278	0.600	136.468	136.147	0.321	60.1	450	6.06	50.0
1.007	SW63	SW64	17.705	0.600	136.072	135.895	0.177	100.0	525	6.19	50.0
1.008	SW64	SW65	13.615	0.600	135.895	135.842	0.053	256.9	525	6.36	50.0
1.009	SW65	SW66	11.703	0.600	135.842	135.813	0.029	403.6	525	6.53	50.0
1.010	SW66	SW68	49.160	0.600	135.813	135.765	0.048	1024.2	525	7.72	50.0
1.011	SW68	SW81	15.604	0.600	135.690	135.651	0.039	400.1	600	7.93	50.0
5.000	SW69	SW70	16.903	0.600	140.159	140.074	0.085	198.9	225	5.31	50.0
5.001	SW70	SW71	16.264	0.600	140.074	139.858	0.216	75.3	225	5.48	50.0
5.002	SW71	SW72	4.538	0.600	139.858	139.816	0.042	108.0	225	5.54	50.0
5.003	SW72	SW73	28.742	0.600	139.741	139.244	0.497	57.8	300	5.78	50.0
5.004	SW73	SW74	14.677	0.600	139.244	139.039	0.205	71.6	300	5.91	50.0
5.005	SW74	SW78	27.082	0.600	139.039	138.704	0.335	80.8	300	6.17	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	2.873	114.2	4.6	1.200	1.400	0.034	0.0	30	1.409
1.001	1.207	48.0	13.0	1.400	1.195	0.096	0.0	80	1.027
1.002	0.926	36.8	13.0	1.195	1.231	0.096	0.0	92	0.846
2.000	2.262	89.9	10.6	1.196	1.231	0.079	0.0	52	1.536
1.003	3.050	215.6	32.8	1.231	1.550	0.242	0.0	79	2.226
3.000	0.923	36.7	3.1	0.893	1.261	0.023	0.0	44	0.567
3.001	0.922	36.6	7.4	1.261	1.550	0.054	0.0	68	0.723
1.004	3.672	405.6	49.0	1.550	1.815	0.361	0.0	88	2.517
4.000	1.975	139.6	19.7	1.181	1.200	0.145	0.0	76	1.411
4.001	1.957	138.3	23.2	1.200	1.200	0.171	0.0	82	1.462
4.002	1.803	127.4	26.7	1.200	1.195	0.197	0.0	93	1.436
1.005	2.344	258.9	79.0	1.815	1.719	0.583	0.0	142	2.069
1.006	2.627	417.8	81.1	1.719	1.402	0.598	0.0	133	2.050
1.007	2.239	484.7	86.6	1.402	0.941	0.639	0.0	149	1.711
1.008	1.393	301.5	94.0	0.941	1.422	0.694	0.0	201	1.237
1.009	1.109	240.0	96.8	1.422	1.745	0.714	0.0	231	1.051
1.010	0.691	149.7	96.8	1.745	2.610	0.714	0.0	308	0.733
1.011	1.211	342.4	111.3	2.610	2.597	0.821	0.0	235	1.087
5.000	0.923	36.7	6.4	1.287	1.384	0.047	0.0	64	0.698
5.001	1.508	60.0	9.1	1.384	1.202	0.067	0.0	59	1.099
5.002	1.257	50.0	9.1	1.202	1.131	0.067	0.0	65	0.959
5.003	2.071	146.4	18.0	1.131	1.200	0.133	0.0	71	1.421
5.004	1.860	131.5	23.1	1.200	1.191	0.171	0.0	85	1.411
5.005	1.750	123.7	25.4	1.191	1.200	0.188	0.0	92	1.385

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)
6.000	SW75	SW76	22.127	0.600	139.950	139.531	0.419	52.8	225	5.20	50.0
6.001	SW76	SW77	14.281	0.600	139.531	139.266	0.265	53.9	225	5.34	50.0
6.002	SW77	SW78	31.705	0.600	139.266	138.779	0.487	65.1	225	5.66	50.0
5.006	SW78	SW79	21.661	0.600	138.629	138.132	0.497	43.6	375	6.30	50.0
5.007	SW79	SW80	13.274	0.600	138.132	137.800	0.332	40.0	375	6.37	50.0
5.008	SW80	SW81	32.032	0.600	137.800	137.000	0.800	40.0	375	6.56	50.0
1.012	SW81	SW82	25.668	0.600	135.651	135.510	0.141	182.0	600	8.17	50.0
7.000	SW83	SW84	20.843	0.600	139.144	138.531	0.613	34.0	150	5.20	50.0
7.001	SW84	SW85	10.841	0.600	138.531	138.396	0.135	80.3	150	5.36	50.0
7.002	SW85	SW86	14.771	0.600	138.396	138.208	0.188	78.6	150	5.58	50.0
7.003	SW86	SW87	17.173	0.600	138.208	137.988	0.220	78.1	150	5.83	50.0
7.004	SW87	SW88	13.767	0.600	137.988	135.660	2.328	5.9	150	5.88	50.0
1.014	SW89	SW107	10.410	0.600	135.500	135.500	0.000	0.0	300	5.17	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)
6.000	1.804	71.7	8.7	1.200	1.200	0.064	0.0	52	1.224
6.001	1.785	71.0	10.2	1.200	1.200	0.075	0.0	58	1.279
6.002	1.623	64.5	16.7	1.200	1.200	0.123	0.0	78	1.367
5.006	2.751	303.8	50.1	1.200	1.200	0.370	0.0	102	2.052
5.007	2.872	317.3	58.3	1.200	1.285	0.430	0.0	108	2.208
5.008	2.870	317.0	58.3	1.285	1.473	0.430	0.0	108	2.206
1.012	1.801	509.3	171.7	2.597	1.390	1.267	0.0	239	1.633
7.000	1.732	30.6	3.0	1.199	1.200	0.022	0.0	32	1.110
7.001	1.122	19.8	5.6	1.200	1.200	0.042	0.0	55	0.970
7.002	1.135	20.1	9.0	1.200	1.200	0.066	0.0	71	1.106
7.003	1.139	20.1	12.7	1.200	1.200	0.094	0.0	86	1.203
7.004	4.171	73.7	16.1	1.200	1.690	0.119	0.0	47	3.337
1.014	1.000	70.7	0.0	1.700	2.909	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	9.604	20.9	225	Circular	140.933	139.508	1.200	140.674	139.049	1.400
1.001	28.002	117.2	225	Circular	140.674	139.049	1.400	140.230	138.810	1.195
1.002	9.690	197.8	225	Circular	140.230	138.810	1.195	140.217	138.761	1.231
2.000	20.850	33.7	225	Circular	140.801	139.380	1.196	140.217	138.761	1.231
1.003	30.310	26.8	300	Circular	140.217	138.686	1.231	139.404	137.554	1.550
3.000	17.929	199.2	225	Circular	138.959	137.841	0.893	139.237	137.751	1.261
3.001	24.350	199.6	225	Circular	139.237	137.751	1.261	139.404	137.629	1.550

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	SW50	1350	Manhole	Adoptable	SW51	1350	Manhole	Adoptable
1.001	SW51	1350	Manhole	Adoptable	SW52	1350	Manhole	Adoptable
1.002	SW52	1350	Manhole	Adoptable	SW54	1350	Manhole	Adoptable
2.000	SW53	1350	Manhole	Adoptable	SW54	1350	Manhole	Adoptable
1.003	SW54	1350	Manhole	Adoptable	SW57	1350	Manhole	Adoptable
3.000	SW55	1350	Manhole	Adoptable	SW56	1350	Manhole	Adoptable
3.001	SW56	1350	Manhole	Adoptable	SW57	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)
1.004	18.926	24.5	375	Circular	139.404	137.479	1.550	138.897	136.707	1.815
4.000	29.165	63.5	300	Circular	139.987	138.506	1.181	139.547	138.047	1.200
4.001	11.715	64.7	300	Circular	139.547	138.047	1.200	139.366	137.866	1.200
4.002	35.343	76.2	300	Circular	139.366	137.866	1.200	138.897	137.402	1.195
1.005	9.824	59.9	375	Circular	138.897	136.707	1.815	138.637	136.543	1.719
1.006	19.278	60.1	450	Circular	138.637	136.468	1.719	137.999	136.147	1.402
1.007	17.705	100.0	525	Circular	137.999	136.072	1.402	137.361	135.895	0.941
1.008	13.615	256.9	525	Circular	137.361	135.895	0.941	137.789	135.842	1.422
1.009	11.703	403.6	525	Circular	137.789	135.842	1.422	138.083	135.813	1.745
1.010	49.160	1024.2	525	Circular	138.083	135.813	1.745	138.900	135.765	2.610
1.011	15.604	400.1	600	Circular	138.900	135.690	2.610	138.848	135.651	2.597
5.000	16.903	198.9	225	Circular	141.671	140.159	1.287	141.683	140.074	1.384
5.001	16.264	75.3	225	Circular	141.683	140.074	1.384	141.285	139.858	1.202
5.002	4.538	108.0	225	Circular	141.285	139.858	1.202	141.172	139.816	1.131
5.003	28.742	57.8	300	Circular	141.172	139.741	1.131	140.744	139.244	1.200
5.004	14.677	71.6	300	Circular	140.744	139.244	1.200	140.530	139.039	1.191
5.005	27.082	80.8	300	Circular	140.530	139.039	1.191	140.204	138.704	1.200
6.000	22.127	52.8	225	Circular	141.375	139.950	1.200	140.956	139.531	1.200
6.001	14.281	53.9	225	Circular	140.956	139.531	1.200	140.691	139.266	1.200
6.002	31.705	65.1	225	Circular	140.691	139.266	1.200	140.204	138.779	1.200
5.006	21.661	43.6	375	Circular	140.204	138.629	1.200	139.707	138.132	1.200
5.007	13.274	40.0	375	Circular	139.707	138.132	1.200	139.460	137.800	1.285
5.008	32.032	40.0	375	Circular	139.460	137.800	1.285	138.848	137.000	1.473
1.012	25.668	182.0	600	Circular	138.848	135.651	2.597	137.500	135.510	1.390
7.000	20.843	34.0	150	Circular	140.493	139.144	1.199	139.881	138.531	1.200

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.004	SW57	1350	Manhole	Adoptable	SW61	1350	Manhole	Adoptable
4.000	SW58	1350	Manhole	Adoptable	SW59	1350	Manhole	Adoptable
4.001	SW59	1350	Manhole	Adoptable	SW60	1350	Manhole	Adoptable
4.002	SW60	1350	Manhole	Adoptable	SW61	1350	Manhole	Adoptable
1.005	SW61	1350	Manhole	Adoptable	SW62	1350	Manhole	Adoptable
1.006	SW62	1350	Manhole	Adoptable	SW63	1500	Manhole	Adoptable
1.007	SW63	1500	Manhole	Adoptable	SW64	1500	Manhole	Adoptable
1.008	SW64	1500	Manhole	Adoptable	SW65	1500	Manhole	Adoptable
1.009	SW65	1500	Manhole	Adoptable	SW66	1500	Manhole	Adoptable
1.010	SW66	1500	Manhole	Adoptable	SW68	1500	Manhole	Adoptable
1.011	SW68	1500	Manhole	Adoptable	SW81	1500	Manhole	Adoptable
5.000	SW69	1350	Manhole	Adoptable	SW70	1350	Manhole	Adoptable
5.001	SW70	1350	Manhole	Adoptable	SW71	1350	Manhole	Adoptable
5.002	SW71	1350	Manhole	Adoptable	SW72	1350	Manhole	Adoptable
5.003	SW72	1350	Manhole	Adoptable	SW73	1350	Manhole	Adoptable
5.004	SW73	1350	Manhole	Adoptable	SW74	1350	Manhole	Adoptable
5.005	SW74	1350	Manhole	Adoptable	SW78	1350	Manhole	Adoptable
6.000	SW75	1350	Manhole	Adoptable	SW76	1350	Manhole	Adoptable
6.001	SW76	1350	Manhole	Adoptable	SW77	1350	Manhole	Adoptable
6.002	SW77	1350	Manhole	Adoptable	SW78	1350	Manhole	Adoptable
5.006	SW78	1350	Manhole	Adoptable	SW79	1350	Manhole	Adoptable
5.007	SW79	1350	Manhole	Adoptable	SW80	1350	Manhole	Adoptable
5.008	SW80	1350	Manhole	Adoptable	SW81	1500	Manhole	Adoptable
1.012	SW81	1500	Manhole	Adoptable	SW82	1500	Manhole	Adoptable
7.000	SW83	1350	Manhole	Adoptable	SW84	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)
7.001	10.841	80.3	150	Circular	139.881	138.531	1.200	139.746	138.396	1.200
7.002	14.771	78.6	150	Circular	139.746	138.396	1.200	139.558	138.208	1.200
7.003	17.173	78.1	150	Circular	139.558	138.208	1.200	139.338	137.988	1.200
7.004	13.767	5.9	150	Circular	139.338	137.988	1.200	137.500	135.660	1.690
1.014	10.410	0.0	300	Circular	137.500	135.500	1.700	138.709	135.500	2.909

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
7.001	SW84	1350	Manhole	Adoptable	SW85	1350	Manhole	Adoptable
7.002	SW85	1350	Manhole	Adoptable	SW86	1350	Manhole	Adoptable
7.003	SW86	1350	Manhole	Adoptable	SW87	1350	Manhole	Adoptable
7.004	SW87	1350	Manhole	Adoptable	SW88	1200	Manhole	Adoptable
1.014	SW89	1200	Manhole	Adoptable	SW107	1200	Manhole	Adoptable

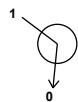
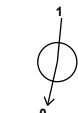
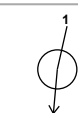
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
SW50	538570.789	236207.298	140.933	1.425	1350		0	1.000	139.508	225
SW51	538569.964	236197.730	140.674	1.625	1350		1	1.000	139.049	225
							0	1.001	139.049	225
SW52	538566.538	236169.938	140.230	1.420	1350		1	1.001	138.810	225
							0	1.002	138.810	225
SW53	538543.568	236168.937	140.801	1.421	1350		0	2.000	139.380	225
SW54	538562.841	236160.981	140.217	1.531	1350		1	2.000	138.761	225
							2	1.002	138.761	225
							0	1.003	138.686	300
SW55	538597.748	236119.587	138.959	1.118	1350		0	3.000	137.841	225
SW56	538581.351	236126.838	139.237	1.486	1350		1	3.000	137.751	225
							0	3.001	137.751	225
SW57	538590.801	236149.280	139.404	1.925	1350		1	3.001	137.629	225
							2	1.003	137.554	300
							0	1.004	137.479	375

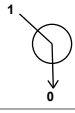
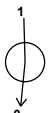
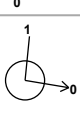
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
SW58	538626.670	236215.142	139.987	1.481	1350		0	4.000	138.506	300
SW59	538624.117	236186.089	139.547	1.500	1350		1	4.000	138.047	300
							0	4.001	138.047	300
SW60	538621.880	236174.590	139.366	1.500	1350		1	4.001	137.866	300
							0	4.002	137.866	300
SW61	538608.261	236141.976	138.897	2.190	1350		1	4.002	137.402	300
							2	1.004	136.707	375
							0	1.005	136.707	375
SW62	538617.759	236139.465	138.637	2.169	1350		1	1.005	136.543	375
							0	1.006	136.468	450
SW63	538636.967	236137.819	137.999	1.927	1500		1	1.006	136.147	450
							0	1.007	136.072	525
SW64	538654.652	236138.661	137.361	1.466	1500		1	1.007	135.895	525
							0	1.008	135.895	525
SW65	538657.999	236151.858	137.789	1.947	1500		1	1.008	135.842	525
							0	1.009	135.842	525
SW66	538664.713	236161.443	138.083	2.270	1500		1	1.009	135.813	525
							0	1.010	135.813	525
SW68	538695.083	236200.100	138.900	3.210	1500		1	1.010	135.765	525
							0	1.011	135.690	600
SW69	538610.583	236304.702	141.671	1.512	1350		0	5.000	140.159	225
SW70	538627.413	236303.135	141.683	1.609	1350		1	5.000	140.074	225
							0	5.001	140.074	225
SW71	538643.597	236304.743	141.285	1.427	1350		1	5.001	139.858	225
							0	5.002	139.858	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections		Link	IL (m)	Dia (mm)
SW72	538647.224	236302.015	141.172	1.431	1350		1	5.002	139.816	225
							0	5.003	139.741	300
SW73	538644.426	236273.409	140.744	1.500	1350		1	5.003	139.244	300
							0	5.004	139.244	300
SW74	538641.207	236259.089	140.530	1.491	1350		1	5.004	139.039	300
							0	5.005	139.039	300
SW75	538570.943	236236.193	141.375	1.425	1350					
							0	6.000	139.950	225
SW76	538592.971	236234.100	140.956	1.425	1350		1	6.000	139.531	225
							0	6.001	139.531	225
SW77	538607.226	236234.965	140.691	1.425	1350		1	6.001	139.266	225
							0	6.002	139.266	225
SW78	538638.803	236232.114	140.204	1.575	1350		1	6.002	138.779	225
							2	5.005	138.704	300
							0	5.006	138.629	375
SW79	538660.357	236229.965	139.707	1.575	1350		1	5.006	138.132	375
							0	5.007	138.132	375
SW80	538672.751	236225.212	139.460	1.660	1350		1	5.007	137.800	375
							0	5.008	137.800	375
SW81	538702.659	236213.741	138.848	3.197	1500		1	5.008	137.000	375
							2	1.011	135.651	600
							0	1.012	135.651	600
SW82	538723.271	236229.038	137.500	2.000	1500		1	1.012	135.510	600
SW83	538683.889	236286.393	140.493	1.349	1350					
							0	7.000	139.144	150
SW84	538704.516	236283.400	139.881	1.350	1350		1	7.000	138.531	150
							0	7.001	138.531	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections		Link	IL (m)	Dia (mm)
SW85	538712.494	236276.059	139.746	1.350	1350		1	7.001	138.396	150
							0	7.002	138.396	150
SW86	538712.901	236261.294	139.558	1.350	1350		1	7.002	138.208	150
							0	7.003	138.208	150
SW87	538711.197	236244.206	139.338	1.350	1350		1	7.003	137.988	150
							0	7.004	137.988	150
SW88	538724.778	236241.948	137.500	2.000	1200		1	7.004	135.660	150
SW89	538734.464	236243.676	137.500	2.000	1200					
							0	1.014	135.500	300
SW107	538742.540	236237.108	138.709	3.209	1200		1	1.014	135.500	300

Simulation Settings

Rainfall Methodology	FSR	Analysis Speed	Detailed
Rainfall Events	Singular	Skip Steady State	x
FSR Region	England and Wales	Drain Down Time (mins)	2000
M5-60 (mm)	20.000	Additional Storage (m³/ha)	0.0
Ratio-R	0.400	Starting Level (m)	
Summer CV	0.750	Check Discharge Rate(s)	x
Winter CV	0.840	Check Discharge Volume	x

Storm Durations

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

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
10	0	0	0
30	0	0	0
100	0	0	0
100	40	0	0

Node SW89 Flow through Pond Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Main Channel Length (m)	20.000
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	135.500	Main Channel Slope (1:X)	99999.0
Safety Factor	2.0	Time to half empty (mins)		Main Channel n	0.050

Inlets

SW82 | SW88

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	416.1	0.0	0.700	660.0	0.0	1.400	941.0	0.0	2.100	1252.5	0.0
0.100	447.1	0.0	0.800	698.3	0.0	1.500	983.6	0.0	2.200	1299.5	0.0
0.200	479.5	0.0	0.900	737.2	0.0	1.600	1026.9	0.0	2.300	1347.1	0.0
0.300	512.5	0.0	1.000	776.7	0.0	1.700	1070.8	0.0	2.400	1395.4	0.0
0.400	546.2	0.0	1.100	816.9	0.0	1.800	1115.3	0.0	2.500	1444.2	0.0
0.500	580.6	0.0	1.200	857.6	0.0	1.900	1160.4	0.0			
0.600	622.4	0.0	1.300	899.0	0.0	2.000	1206.1	0.0			

Node SW107 Deep Bore Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	135.355	Borehole Diameter	0.300
Side Inf Coefficient (m/hr)	0.09000	Time to half empty (mins)	441	Borehole Depth (m)	22.000
Safety Factor	3.0	Diameter (m)	1.800	Inf Depth (m)	18.700
Porosity	1.00	Depth (m)		Number Required	18

Results for 10 year Critical Storm Duration. Lowest mass balance: 98.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW50	10	139.551	0.043	9.2	0.0615	0.0000	OK
15 minute winter	SW51	10	139.171	0.122	26.0	0.1741	0.0000	OK
15 minute winter	SW52	11	138.960	0.150	25.7	0.2149	0.0000	OK
15 minute winter	SW53	10	139.457	0.077	21.4	0.1106	0.0000	OK
15 minute winter	SW54	10	138.803	0.117	64.3	0.1670	0.0000	OK
15 minute winter	SW55	10	137.903	0.062	6.3	0.0887	0.0000	OK
15 minute winter	SW56	11	137.852	0.101	14.7	0.1442	0.0000	OK
15 minute winter	SW57	11	137.601	0.122	95.2	0.1748	0.0000	OK
15 minute winter	SW58	10	138.616	0.110	39.6	0.1580	0.0000	OK
15 minute winter	SW59	10	138.179	0.132	46.1	0.1886	0.0000	OK
15 minute winter	SW60	11	138.006	0.140	52.7	0.1996	0.0000	OK
15 minute winter	SW61	11	136.959	0.252	154.2	0.3607	0.0000	OK
15 minute winter	SW62	11	136.683	0.215	159.0	0.3074	0.0000	OK
15 minute winter	SW63	11	136.342	0.270	169.8	0.4768	0.0000	OK
15 minute winter	SW64	11	136.314	0.419	183.1	0.7396	0.0000	OK
15 minute winter	SW65	12	136.280	0.438	185.6	0.7745	0.0000	OK
15 minute winter	SW66	12	136.242	0.429	183.2	0.7585	0.0000	OK
960 minute winter	SW68	930	136.162	0.472	14.6	0.8335	0.0000	OK
15 minute winter	SW69	10	140.254	0.095	12.9	0.1363	0.0000	OK
15 minute winter	SW70	10	140.162	0.087	18.1	0.1252	0.0000	OK
15 minute winter	SW71	11	139.964	0.105	17.8	0.1509	0.0000	OK
15 minute winter	SW72	10	139.841	0.100	35.5	0.1431	0.0000	OK
15 minute winter	SW73	11	139.376	0.132	45.4	0.1885	0.0000	OK
15 minute winter	SW74	11	139.179	0.140	49.7	0.2002	0.0000	OK
15 minute winter	SW75	10	140.027	0.077	17.5	0.1099	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	SW50	1.000	SW51	9.1	0.697	0.080	0.1305
15 minute winter	SW51	1.001	SW52	25.7	1.034	0.535	0.6943
15 minute winter	SW52	1.002	SW54	25.6	0.972	0.696	0.2552
15 minute winter	SW53	2.000	SW54	21.1	1.808	0.235	0.2439
15 minute winter	SW54	1.003	SW57	63.9	2.610	0.296	0.7423
15 minute winter	SW55	3.000	SW56	6.2	0.481	0.168	0.2323
15 minute winter	SW56	3.001	SW57	14.4	0.856	0.392	0.4083
15 minute winter	SW57	1.004	SW61	95.2	1.747	0.235	1.0395
15 minute winter	SW58	4.000	SW59	39.2	1.473	0.281	0.7772
15 minute winter	SW59	4.001	SW60	45.5	1.477	0.329	0.3612
15 minute winter	SW60	4.002	SW61	52.7	1.693	0.413	1.0994
15 minute winter	SW61	1.005	SW62	155.1	2.202	0.599	0.6908
15 minute winter	SW62	1.006	SW63	159.4	2.275	0.382	1.3534
15 minute winter	SW63	1.007	SW64	169.0	1.189	0.349	2.6236
15 minute winter	SW64	1.008	SW65	180.4	0.980	0.598	2.5678
15 minute winter	SW65	1.009	SW66	183.2	0.979	0.763	2.2333
15 minute winter	SW66	1.010	SW68	181.8	1.058	1.215	8.4106
960 minute winter	SW68	1.011	SW81	14.2	0.559	0.041	3.8488
15 minute winter	SW69	5.000	SW70	12.7	0.840	0.346	0.2556
15 minute winter	SW70	5.001	SW71	17.8	1.106	0.298	0.2626
15 minute winter	SW71	5.002	SW72	17.9	1.068	0.359	0.0762
15 minute winter	SW72	5.003	SW73	35.2	1.407	0.240	0.7217
15 minute winter	SW73	5.004	SW74	45.3	1.462	0.344	0.4545
15 minute winter	SW74	5.005	SW78	50.1	1.620	0.405	0.8379
15 minute winter	SW75	6.000	SW76	17.3	1.363	0.242	0.2815

Results for 10 year Critical Storm Duration. Lowest mass balance: 98.93%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW76	10	139.615	0.084	20.2	0.1201	0.0000	OK
15 minute winter	SW77	11	139.384	0.118	33.2	0.1684	0.0000	OK
15 minute winter	SW78	11	138.784	0.155	98.0	0.2217	0.0000	OK
15 minute winter	SW79	11	138.308	0.176	113.7	0.2524	0.0000	OK
15 minute winter	SW80	11	137.965	0.165	114.1	0.2357	0.0000	OK
960 minute winter	SW81	930	136.162	0.511	21.9	0.9025	0.0000	OK
960 minute winter	SW82	915	136.167	0.667	31.9	1.1784	0.0000	OK
15 minute winter	SW83	10	139.189	0.045	6.0	0.0641	0.0000	OK
15 minute winter	SW84	12	138.631	0.100	11.2	0.1433	0.0000	OK
15 minute winter	SW85	12	138.602	0.206	18.6	0.2946	0.0000	SURCHARGED
15 minute winter	SW86	11	138.462	0.254	22.7	0.3629	0.0000	SURCHARGED
15 minute winter	SW87	11	138.056	0.068	28.3	0.0978	0.0000	OK
960 minute winter	SW88	930	136.161	0.660	2.0	0.7469	0.0000	OK
960 minute winter	SW89	930	136.160	0.660	13.7	0.7466	0.0000	SURCHARGED
960 minute winter	SW107	930	136.160	0.660	8.4	65.8932	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	SW76	6.001	SW77	20.0	1.162	0.282	0.2463
15 minute winter	SW77	6.002	SW78	32.8	1.603	0.508	0.6482
15 minute winter	SW78	5.006	SW79	98.3	2.096	0.324	1.0163
15 minute winter	SW79	5.007	SW80	114.1	2.342	0.360	0.6469
15 minute winter	SW80	5.008	SW81	114.3	2.569	0.361	1.4254
960 minute winter	SW81	1.012	SW82	21.4	0.547	0.042	6.8956
960 minute winter	SW82	Flow through Pond	SW89	13.7	0.013	0.002	346.6563
15 minute winter	SW83	7.000	SW84	5.9	0.825	0.194	0.1703
15 minute winter	SW84	7.001	SW85	11.8	0.863	0.593	0.1631
15 minute winter	SW85	7.002	SW86	15.6	0.966	0.778	0.2600
15 minute winter	SW86	7.003	SW87	22.0	1.527	1.094	0.2182
15 minute winter	SW87	7.004	SW88	28.3	3.766	0.384	0.1264
960 minute winter	SW88	Flow through Pond	SW89	13.7	0.013	0.002	346.6563
960 minute winter	SW89	1.014	SW107	8.4	0.516	0.119	0.7331
960 minute winter	SW107	Infiltration		2.6			

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW50	10	139.556	0.048	11.7	0.0692	0.0000	OK
15 minute winter	SW51	10	139.191	0.142	33.0	0.2029	0.0000	OK
15 minute winter	SW52	11	138.988	0.178	32.6	0.2542	0.0000	OK
15 minute winter	SW53	10	139.468	0.088	27.2	0.1265	0.0000	OK
15 minute winter	SW54	10	138.820	0.134	81.7	0.1920	0.0000	OK
15 minute winter	SW55	10	137.911	0.070	8.0	0.1004	0.0000	OK
15 minute winter	SW56	11	137.867	0.116	18.6	0.1666	0.0000	OK
15 minute winter	SW57	10	137.618	0.139	121.0	0.1995	0.0000	OK
15 minute winter	SW58	10	138.633	0.127	50.3	0.1814	0.0000	OK
15 minute winter	SW59	10	138.201	0.154	58.6	0.2199	0.0000	OK
15 minute winter	SW60	11	138.027	0.161	66.9	0.2309	0.0000	OK
15 minute winter	SW61	11	137.009	0.302	195.8	0.4328	0.0000	OK
15 minute winter	SW62	11	136.725	0.257	202.0	0.3679	0.0000	OK
15 minute winter	SW63	12	136.477	0.405	214.5	0.7163	0.0000	OK
15 minute winter	SW64	12	136.444	0.549	224.7	0.9703	0.0000	SURCHARGED
15 minute winter	SW65	12	136.392	0.550	228.1	0.9722	0.0000	SURCHARGED
15 minute winter	SW66	12	136.341	0.528	226.7	0.9335	0.0000	SURCHARGED
1440 minute winter	SW68	1380	136.338	0.648	12.3	1.1442	0.0000	SURCHARGED
15 minute winter	SW69	10	140.269	0.110	16.4	0.1570	0.0000	OK
15 minute winter	SW70	10	140.175	0.101	22.9	0.1445	0.0000	OK
15 minute winter	SW71	11	139.980	0.122	22.6	0.1739	0.0000	OK
15 minute winter	SW72	10	139.855	0.114	45.1	0.1637	0.0000	OK
15 minute winter	SW73	11	139.397	0.153	57.6	0.2191	0.0000	OK
15 minute winter	SW74	11	139.201	0.162	63.0	0.2317	0.0000	OK
15 minute winter	SW75	10	140.038	0.088	22.2	0.1253	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	SW50	1.000	SW51	11.6	0.730	0.102	0.1565
15 minute winter	SW51	1.001	SW52	32.6	1.091	0.680	0.8336
15 minute winter	SW52	1.002	SW54	32.5	1.046	0.882	0.3002
15 minute winter	SW53	2.000	SW54	26.9	1.925	0.299	0.2912
15 minute winter	SW54	1.003	SW57	81.1	2.770	0.376	0.8878
15 minute winter	SW55	3.000	SW56	7.9	0.508	0.214	0.2789
15 minute winter	SW56	3.001	SW57	18.3	0.908	0.499	0.4899
15 minute winter	SW57	1.004	SW61	120.9	1.807	0.298	1.2511
15 minute winter	SW58	4.000	SW59	49.8	1.543	0.357	0.9421
15 minute winter	SW59	4.001	SW60	57.8	1.547	0.418	0.4379
15 minute winter	SW60	4.002	SW61	66.8	1.792	0.525	1.3183
15 minute winter	SW61	1.005	SW62	197.0	2.307	0.761	0.8340
15 minute winter	SW62	1.006	SW63	201.3	2.292	0.482	2.0555
15 minute winter	SW63	1.007	SW64	206.8	1.198	0.427	3.4964
15 minute winter	SW64	1.008	SW65	221.5	1.028	0.735	2.9413
15 minute winter	SW65	1.009	SW66	226.7	1.050	0.945	2.5277
15 minute winter	SW66	1.010	SW68	227.4	1.086	1.519	10.1354
1440 minute winter	SW68	1.011	SW81	11.8	0.509	0.035	4.3953
15 minute winter	SW69	5.000	SW70	16.2	0.886	0.440	0.3081
15 minute winter	SW70	5.001	SW71	22.6	1.164	0.377	0.3165
15 minute winter	SW71	5.002	SW72	22.7	1.132	0.454	0.0911
15 minute winter	SW72	5.003	SW73	44.7	1.476	0.305	0.8726
15 minute winter	SW73	5.004	SW74	57.4	1.533	0.437	0.5497
15 minute winter	SW74	5.005	SW78	63.5	1.713	0.514	1.0046
15 minute winter	SW75	6.000	SW76	22.0	1.433	0.307	0.3396

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.01%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW76	10	139.628	0.097	25.7	0.1392	0.0000	OK
15 minute winter	SW77	10	139.403	0.137	42.1	0.1963	0.0000	OK
15 minute winter	SW78	11	138.808	0.179	124.2	0.2565	0.0000	OK
15 minute winter	SW79	11	138.338	0.206	144.2	0.2945	0.0000	OK
15 minute winter	SW80	11	137.990	0.190	144.7	0.2725	0.0000	OK
1440 minute winter	SW81	1380	136.337	0.686	19.1	1.2118	0.0000	SURCHARGED
1440 minute winter	SW82	1380	136.347	0.847	47.8	1.4965	0.0000	OK
15 minute winter	SW83	10	139.195	0.051	7.7	0.0730	0.0000	OK
15 minute winter	SW84	12	138.847	0.316	14.3	0.4528	0.0000	SURCHARGED
15 minute winter	SW85	12	138.788	0.392	19.8	0.5611	0.0000	SURCHARGED
15 minute winter	SW86	12	138.594	0.386	26.6	0.5530	0.0000	SURCHARGED
15 minute winter	SW87	11	138.063	0.075	33.1	0.1075	0.0000	OK
1440 minute winter	SW88	1380	136.336	0.836	1.9	0.9458	0.0000	OK
1440 minute winter	SW89	1380	136.336	0.836	28.6	0.9456	0.0000	SURCHARGED
1440 minute winter	SW107	1380	136.336	0.836	5.5	74.1554	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	SW76	6.001	SW77	25.4	1.214	0.357	0.2982
15 minute winter	SW77	6.002	SW78	41.5	1.690	0.643	0.7787
15 minute winter	SW78	5.006	SW79	124.6	2.188	0.410	1.2332
15 minute winter	SW79	5.007	SW80	144.7	2.452	0.456	0.7836
15 minute winter	SW80	5.008	SW81	145.0	2.718	0.458	1.7094
1440 minute winter	SW81	1.012	SW82	18.7	0.534	0.037	7.2301
1440 minute winter	SW82	Flow through Pond	SW89	28.6	0.009	0.005	466.2037
15 minute winter	SW83	7.000	SW84	7.6	0.860	0.249	0.2384
15 minute winter	SW84	7.001	SW85	11.7	0.859	0.591	0.1909
15 minute winter	SW85	7.002	SW86	18.2	1.033	0.906	0.2600
15 minute winter	SW86	7.003	SW87	25.7	1.704	1.275	0.2269
15 minute winter	SW87	7.004	SW88	33.0	3.907	0.448	0.1680
1440 minute winter	SW88	Flow through Pond	SW89	28.6	0.009	0.005	466.2037
1440 minute winter	SW89	1.014	SW107	5.5	0.448	0.078	0.7331
1440 minute winter	SW107	Infiltration		2.6			

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW50	10	139.563	0.055	15.2	0.0789	0.0000	OK
15 minute winter	SW51	10	139.223	0.174	42.9	0.2486	0.0000	OK
15 minute winter	SW52	11	139.038	0.228	42.1	0.3258	0.0000	SURCHARGED
15 minute winter	SW53	10	139.483	0.103	35.3	0.1473	0.0000	OK
15 minute winter	SW54	10	138.843	0.157	105.9	0.2252	0.0000	OK
15 minute winter	SW55	10	137.922	0.081	10.4	0.1153	0.0000	OK
15 minute winter	SW56	11	137.889	0.138	24.3	0.1971	0.0000	OK
15 minute winter	SW57	11	137.671	0.192	157.2	0.2747	0.0000	OK
15 minute winter	SW58	10	138.655	0.149	65.2	0.2127	0.0000	OK
15 minute winter	SW59	10	138.231	0.184	76.1	0.2636	0.0000	OK
15 minute winter	SW60	11	138.058	0.192	86.9	0.2747	0.0000	OK
15 minute winter	SW61	11	137.382	0.675	252.1	0.9654	0.0000	SURCHARGED
15 minute winter	SW62	12	137.119	0.651	253.3	0.9310	0.0000	SURCHARGED
15 minute winter	SW63	12	136.947	0.875	264.5	1.5460	0.0000	SURCHARGED
15 minute winter	SW64	12	136.859	0.964	284.0	1.7031	0.0000	SURCHARGED
15 minute winter	SW65	12	136.769	0.927	291.9	1.6378	0.0000	SURCHARGED
15 minute winter	SW66	12	136.679	0.866	293.9	1.5309	0.0000	SURCHARGED
1440 minute winter	SW68	1410	136.573	0.883	15.4	1.5595	0.0000	SURCHARGED
15 minute winter	SW69	10	140.288	0.129	21.2	0.1850	0.0000	OK
15 minute winter	SW70	10	140.194	0.120	29.8	0.1710	0.0000	OK
15 minute winter	SW71	11	140.001	0.143	29.4	0.2049	0.0000	OK
15 minute winter	SW72	10	139.875	0.134	58.5	0.1912	0.0000	OK
15 minute winter	SW73	11	139.427	0.183	74.9	0.2618	0.0000	OK
15 minute winter	SW74	11	139.232	0.193	81.7	0.2757	0.0000	OK
15 minute winter	SW75	10	140.052	0.102	28.8	0.1454	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	SW50	1.000	SW51	15.1	0.750	0.132	0.1942
15 minute winter	SW51	1.001	SW52	42.1	1.143	0.878	1.0143
15 minute winter	SW52	1.002	SW54	41.9	1.126	1.139	0.3501
15 minute winter	SW53	2.000	SW54	34.9	2.054	0.388	0.3543
15 minute winter	SW54	1.003	SW57	104.9	2.943	0.486	1.0829
15 minute winter	SW55	3.000	SW56	10.2	0.538	0.279	0.3418
15 minute winter	SW56	3.001	SW57	23.8	0.973	0.649	0.5950
15 minute winter	SW57	1.004	SW61	155.9	1.830	0.384	1.5806
15 minute winter	SW58	4.000	SW59	64.7	1.612	0.463	1.1691
15 minute winter	SW59	4.001	SW60	75.0	1.618	0.542	0.5435
15 minute winter	SW60	4.002	SW61	86.8	1.896	0.681	1.6176
15 minute winter	SW61	1.005	SW62	246.4	2.322	0.952	1.0836
15 minute winter	SW62	1.006	SW63	247.4	2.281	0.592	3.0545
15 minute winter	SW63	1.007	SW64	263.0	1.218	0.543	3.8249
15 minute winter	SW64	1.008	SW65	284.7	1.318	0.944	2.9413
15 minute winter	SW65	1.009	SW66	293.9	1.361	1.225	2.5282
15 minute winter	SW66	1.010	SW68	295.7	1.369	1.976	10.6202
1440 minute winter	SW68	1.011	SW81	14.7	0.503	0.043	4.3953
15 minute winter	SW69	5.000	SW70	20.9	0.929	0.569	0.3804
15 minute winter	SW70	5.001	SW71	29.4	1.227	0.490	0.3894
15 minute winter	SW71	5.002	SW72	29.4	1.204	0.588	0.1108
15 minute winter	SW72	5.003	SW73	58.0	1.543	0.397	1.0815
15 minute winter	SW73	5.004	SW74	74.4	1.606	0.566	0.6810
15 minute winter	SW74	5.005	SW78	82.5	1.812	0.667	1.2325
15 minute winter	SW75	6.000	SW76	28.5	1.501	0.398	0.4207

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.04%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW76	10	139.647	0.116	33.4	0.1660	0.0000	OK
15 minute winter	SW77	11	139.433	0.167	54.7	0.2385	0.0000	OK
15 minute winter	SW78	11	138.842	0.213	161.3	0.3053	0.0000	OK
15 minute winter	SW79	11	138.379	0.247	187.3	0.3541	0.0000	OK
15 minute winter	SW80	11	138.026	0.226	188.0	0.3234	0.0000	OK
1440 minute winter	SW81	1410	136.574	0.923	23.7	1.6309	0.0000	SURCHARGED
1440 minute winter	SW82	1440	136.579	1.078	26.1	1.9057	0.0000	OK
15 minute winter	SW83	12	139.208	0.064	10.0	0.0915	0.0000	OK
15 minute winter	SW84	12	139.181	0.650	18.6	0.9303	0.0000	SURCHARGED
15 minute winter	SW85	12	139.099	0.703	23.8	1.0058	0.0000	SURCHARGED
15 minute winter	SW86	12	138.822	0.614	32.7	0.8786	0.0000	SURCHARGED
15 minute winter	SW87	11	138.073	0.085	40.5	0.1222	0.0000	OK
1440 minute winter	SW88	1410	136.571	1.071	2.4	1.2113	0.0000	OK
1440 minute winter	SW89	1410	136.571	1.071	75.6	1.2113	0.0000	SURCHARGED
1440 minute winter	SW107	1410	136.571	1.071	5.6	85.1875	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	SW76	6.001	SW77	33.0	1.258	0.465	0.3722
15 minute winter	SW77	6.002	SW78	54.0	1.773	0.836	0.9648
15 minute winter	SW78	5.006	SW79	161.8	2.280	0.533	1.5363
15 minute winter	SW79	5.007	SW80	188.0	2.565	0.593	0.9725
15 minute winter	SW80	5.008	SW81	188.4	2.878	0.594	2.0973
1440 minute winter	SW81	1.012	SW82	23.3	0.559	0.046	7.2301
1440 minute winter	SW82	Flow through Pond	SW89	75.6	0.007	0.013	644.2601
15 minute winter	SW83	7.000	SW84	9.9	0.876	0.323	0.2580
15 minute winter	SW84	7.001	SW85	13.9	0.843	0.700	0.1909
15 minute winter	SW85	7.002	SW86	21.7	1.235	1.084	0.2600
15 minute winter	SW86	7.003	SW87	30.9	2.019	1.534	0.2401
15 minute winter	SW87	7.004	SW88	40.4	4.086	0.548	0.1817
1440 minute winter	SW88	Flow through Pond	SW89	75.6	0.007	0.013	644.2601
1440 minute winter	SW89	1.014	SW107	5.6	0.451	0.080	0.7331
1440 minute winter	SW107	Infiltration		2.6			

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW50	10	139.573	0.065	21.2	0.0934	0.0000	OK
15 minute winter	SW51	11	139.554	0.505	60.1	0.7222	0.0000	SURCHARGED
15 minute winter	SW52	11	139.138	0.328	57.9	0.4690	0.0000	SURCHARGED
15 minute winter	SW53	10	139.507	0.127	49.4	0.1814	0.0000	OK
15 minute winter	SW54	12	138.966	0.280	147.4	0.4009	0.0000	OK
15 minute winter	SW55	12	138.585	0.744	21.4	1.0640	0.0000	SURCHARGED
15 minute winter	SW56	12	138.565	0.814	31.5	1.1654	0.0000	SURCHARGED
15 minute winter	SW57	12	138.472	0.993	200.5	1.4205	0.0000	SURCHARGED
15 minute winter	SW58	12	138.832	0.326	91.3	0.4670	0.0000	SURCHARGED
15 minute winter	SW59	12	138.677	0.630	106.5	0.9018	0.0000	SURCHARGED
15 minute winter	SW60	12	138.565	0.699	113.5	1.0007	0.0000	SURCHARGED
15 minute winter	SW61	12	138.215	1.508	304.6	2.1576	0.0000	SURCHARGED
15 minute winter	SW62	12	137.787	1.319	312.4	1.8874	0.0000	SURCHARGED
15 minute winter	SW63	11	137.510	1.438	332.5	2.5402	0.0000	SURCHARGED
15 minute winter	SW64	11	137.361	1.466	359.9	2.5904	1.5975	FLOOD
15 minute winter	SW65	11	137.233	1.391	358.3	2.4580	0.0000	SURCHARGED
15 minute winter	SW66	11	137.103	1.290	360.5	2.2794	0.0000	SURCHARGED
1440 minute winter	SW68	1410	136.958	1.268	22.3	2.2397	0.0000	SURCHARGED
15 minute winter	SW69	10	140.324	0.165	29.7	0.2365	0.0000	OK
15 minute winter	SW70	10	140.227	0.153	41.6	0.2187	0.0000	OK
15 minute winter	SW71	11	140.040	0.182	41.0	0.2601	0.0000	OK
15 minute winter	SW72	10	139.907	0.166	81.8	0.2382	0.0000	OK
15 minute winter	SW73	11	139.488	0.244	104.8	0.3486	0.0000	OK
15 minute winter	SW74	11	139.294	0.255	114.3	0.3647	0.0000	OK
15 minute winter	SW75	10	140.075	0.125	40.3	0.1782	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	SW50	1.000	SW51	21.1	0.760	0.185	0.2368
15 minute winter	SW51	1.001	SW52	57.9	1.456	1.206	1.1137
15 minute winter	SW52	1.002	SW54	58.1	1.463	1.578	0.3769
15 minute winter	SW53	2.000	SW54	49.4	2.172	0.549	0.5821
15 minute winter	SW54	1.003	SW57	141.8	3.023	0.658	2.1045
15 minute winter	SW55	3.000	SW56	16.8	0.571	0.458	0.7131
15 minute winter	SW56	3.001	SW57	35.9	1.055	0.980	0.9684
15 minute winter	SW57	1.004	SW61	193.4	1.833	0.477	2.0875
15 minute winter	SW58	4.000	SW59	90.5	1.672	0.648	2.0538
15 minute winter	SW59	4.001	SW60	96.9	1.684	0.701	0.8250
15 minute winter	SW60	4.002	SW61	103.3	1.929	0.811	2.4888
15 minute winter	SW61	1.005	SW62	304.9	2.764	1.177	1.0836
15 minute winter	SW62	1.006	SW63	312.7	2.270	0.748	3.0545
15 minute winter	SW63	1.007	SW64	332.8	1.541	0.687	3.8249
15 minute winter	SW64	1.008	SW65	348.5	1.613	1.156	2.9413
15 minute winter	SW65	1.009	SW66	360.5	1.669	1.502	2.5282
15 minute winter	SW66	1.010	SW68	364.6	1.688	2.436	10.6202
1440 minute winter	SW68	1.011	SW81	22.2	0.507	0.065	4.3953
15 minute winter	SW69	5.000	SW70	29.3	0.975	0.797	0.5069
15 minute winter	SW70	5.001	SW71	41.0	1.303	0.684	0.5106
15 minute winter	SW71	5.002	SW72	41.2	1.297	0.823	0.1435
15 minute winter	SW72	5.003	SW73	81.2	1.595	0.554	1.4476
15 minute winter	SW73	5.004	SW74	104.1	1.677	0.791	0.9178
15 minute winter	SW74	5.005	SW78	115.0	1.907	0.930	1.6310
15 minute winter	SW75	6.000	SW76	40.2	1.559	0.560	0.6681

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.08%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW76	11	139.788	0.257	47.0	0.3683	0.0000	SURCHARGED
15 minute winter	SW77	11	139.656	0.390	71.6	0.5585	0.0000	SURCHARGED
15 minute winter	SW78	11	138.903	0.274	220.4	0.3915	0.0000	OK
15 minute winter	SW79	11	138.457	0.325	256.0	0.4649	0.0000	OK
15 minute winter	SW80	11	138.086	0.286	256.1	0.4093	0.0000	OK
1440 minute winter	SW81	1410	136.959	1.308	35.0	2.3107	0.0000	SURCHARGED
1440 minute winter	SW82	1440	136.967	1.466	34.9	2.5910	0.0000	OK
15 minute winter	SW83	13	139.815	0.671	13.9	0.9605	0.0000	SURCHARGED
15 minute winter	SW84	13	139.752	1.221	23.0	1.7470	0.0000	FLOOD RISK
15 minute winter	SW85	13	139.623	1.227	29.4	1.7554	0.0000	FLOOD RISK
15 minute winter	SW86	12	139.198	0.990	41.2	1.4171	0.0000	SURCHARGED
15 minute winter	SW87	10	138.087	0.099	51.7	0.1410	0.0000	OK
1440 minute winter	SW88	1440	136.958	1.458	3.3	1.6490	0.0000	OK
1440 minute winter	SW89	1440	136.958	1.458	27.1	1.6491	0.0000	SURCHARGED
1440 minute winter	SW107	1410	136.958	1.458	6.4	103.3415	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	SW76	6.001	SW77	43.4	1.274	0.611	0.5680
15 minute winter	SW77	6.002	SW78	70.7	1.777	1.095	1.2416
15 minute winter	SW78	5.006	SW79	220.4	2.356	0.725	2.0318
15 minute winter	SW79	5.007	SW80	256.1	2.665	0.807	1.2720
15 minute winter	SW80	5.008	SW81	256.2	3.036	0.808	2.6988
1440 minute winter	SW81	1.012	SW82	34.9	0.613	0.068	7.2301
1440 minute winter	SW82	Flow through Pond	SW89	27.1	0.013	0.005	986.5053
15 minute winter	SW83	7.000	SW84	11.6	0.879	0.378	0.3669
15 minute winter	SW84	7.001	SW85	17.1	0.972	0.863	0.1909
15 minute winter	SW85	7.002	SW86	27.0	1.535	1.347	0.2600
15 minute winter	SW86	7.003	SW87	38.7	2.429	1.921	0.2565
15 minute winter	SW87	7.004	SW88	51.6	4.252	0.700	0.1994
1440 minute winter	SW88	Flow through Pond	SW89	27.1	0.013	0.005	986.5053
1440 minute winter	SW89	1.014	SW107	6.4	0.471	0.090	0.7331
1440 minute winter	SW107	Infiltration		2.6			