

Design Settings

Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00
Return Period (years)	100	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)	17.000	Minimum Backdrop Height (m)	0.200
Ratio-R	0.400	Preferred Cover Depth (m)	1.200
CV	1.000	Include Intermediate Ground	✓
Time of Entry (mins)	5.00	Enforce best practice design rules	✓

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)
SW01	0.160	5.00	73.725	1350		472709.042	169110.928	1.985
SW02	0.160	5.00	73.601	1350		472712.416	169062.496	2.031
SW03			73.350	1350		472721.623	169032.000	1.890
Tank U2			73.258	1350		472735.720	169035.660	2.358
U2 Dock	0.022	5.00	72.550	450	450	472720.186	169061.300	1.000
SW04	0.157	5.00	73.208	1200		472729.059	169041.028	2.128
SW05			73.207	1350		472743.296	169042.020	2.337
SW06/ FC			73.232	1350		472742.864	169048.222	2.382
SW07	0.020	5.00	73.237	1800		472764.201	169049.696	3.037
SW08	0.016	5.00	73.549	1200		472783.734	169097.527	1.089
SW09	0.063	5.00	73.249	1200		472786.330	169060.618	0.999
SW10	0.010	5.00	72.988	1800		472775.117	169047.893	2.818
SW11	0.362	5.00	73.863	1500		472825.021	169152.939	2.053
SW12	0.362	5.00	73.862	1500		472779.814	169122.703	2.332
SW13			73.882	1500		472808.852	169077.826	2.462
U1 Dock	0.052	5.00	72.650	450	450	472833.433	169037.140	1.000
SW14	0.198	5.00	73.009	1350		472811.805	169015.762	1.589
SW15			73.191	1350		472820.324	169021.461	1.811
SW16			73.194	1350		472815.676	169028.411	1.844
SW17			73.196	1350		472801.900	169049.007	2.026
Tank U1			72.972	1500		472800.686	169037.968	2.472
SW18/ FC			72.937	1500		472796.831	169032.387	2.467
RG01	0.040	5.00	72.921	450		472784.331	169038.046	0.921
SW19			72.834	1800		472788.939	169027.133	2.804
SW20	0.049	5.00	73.475	1200		472730.161	169017.080	1.725
SW21	0.049	5.00	73.475	1200		472753.596	169032.754	1.855
SW22			73.475	1200		472766.388	169013.639	1.965
SW23	0.033	5.00	73.068	1200		472783.325	169017.574	1.438
SW24	0.027	5.00	73.068	1200		472777.996	169025.540	1.588
Tank U3a			73.117	1200		472773.364	169017.630	2.317
SW25/ FC			73.037	1350		472783.477	169019.582	2.287
SW26			72.791	1800		472795.663	169017.033	2.801
SW27	0.049	5.00	73.475	1200		472764.795	168964.541	1.725
SW28	0.049	5.00	73.452	1200		472788.579	168980.450	1.832
SW29			73.475	1200		472775.797	168999.571	1.965
SW30	0.033	5.00	73.079	1200		472785.841	169012.985	1.449
SW31	0.033	5.00	73.066	1200		472791.793	169004.085	1.596
Tank U3b			73.117	1200		472781.566	169004.462	2.317
SW32/ FC			73.020	1350		472791.095	169008.430	2.260
RG03	0.025	5.00	72.709	450		472811.238	168996.727	0.899
RG02	0.034	5.00	72.958	450		472806.421	169011.042	0.908

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)
SW33			72.810	1800		472805.807	169008.455	2.860
SW34			72.477	1800		472828.055	169004.369	2.577
SW38	0.025	5.00	73.109	1200		472862.760	168999.260	1.059
SW39	0.018	5.00	73.643	1200		472877.453	168996.109	1.053
SW40			73.572	1200		472872.011	168989.170	1.622
SW41	0.043	5.00	72.536	1200		472854.297	168966.585	1.056
SW42	0.080	5.00	72.490	1200		472846.747	168978.477	1.425
SW43	0.012	5.00	72.628	1200		472841.609	168971.925	1.688
SW35	0.110	5.00	72.675	1200		472791.007	168961.963	1.805
SW36	0.110	5.00	72.683	1200		472813.080	168990.109	2.013
SW37			72.683	1200		472826.958	168979.225	2.063
Tank U4			72.498	1350		472832.178	168983.451	2.598
SW44/ FC			72.496	1500		472838.306	168993.659	2.676
RG04	0.060	5.00	72.633	450		472841.114	169008.467	0.903
SW45			72.641	1800		472848.775	169005.545	3.231
SW46			72.951	1800		472868.220	169012.174	3.591
SW47			72.631	1800		472887.371	169023.723	3.321
RG05	0.060	5.00	71.976	450		472899.027	169036.063	1.906
SW48	0.050	5.00	71.892	1800		472902.125	169033.255	2.642
SW63	0.029	5.00	79.270	1200		472925.004	169209.113	1.450
SW64	0.028	5.00	78.811	1200		472956.540	169203.686	1.211
SW65	0.095	5.00	79.073	1200		472922.141	169192.457	1.453
SW66	0.040	5.00	78.550	1200		472953.678	169187.031	1.230
SW67	0.108	5.00	78.229	1200		472950.815	169170.377	1.309
SW68			78.981	1200		472886.757	169181.400	2.421
EXTGSW01	0.044	5.00	77.079	1200		472873.456	169149.174	1.309
SW53	0.120	5.00	75.975	1200		472983.918	169148.764	1.505
SW54	0.025	5.00	75.975	1200		472967.371	169160.040	1.575
SW55			75.975	1200		472958.643	169147.232	1.635
SW56			75.975	1200		472943.562	169157.509	1.705
SW57	0.169	5.00	75.983	1500		472937.790	169149.043	1.933
U5 Dock	0.035	5.00	74.750	450	450	472921.195	169130.017	1.000
SW58	0.144	5.00	75.429	1200		472906.638	169148.010	2.069
SW59			75.429	1500		472912.120	169156.055	2.409
SW60			75.647	1500		472904.922	169160.961	2.647
Tank U5			75.475	1350		472897.558	169150.343	2.505
SW61	0.011	5.00	75.374	1200		472900.791	169130.616	1.354
SW62/ FC	0.009	5.00	75.543	1500		472891.170	169133.422	2.609
EXTGSW02	0.040	5.00	76.177	1350		472882.197	169120.518	3.517
EXTGSW03	0.027	5.00	74.917	1350		472895.921	169099.330	3.352
SW51	0.049	5.00	73.624	1200		472875.934	169094.084	1.034
SW49	0.025	5.00	73.656	1200		472898.672	169057.840	1.056
SW50			73.656	1200		472890.439	169070.150	1.156
SW52	0.012	5.00	73.640	1200		472888.036	169075.990	1.200
EXTGSW04	0.034	5.00	73.653	1350		472905.787	169084.098	2.789
EXTGSW05	0.017	5.00	72.118	1800		472922.626	169063.598	3.368
EXTGSW06			72.000	1200		472979.849	169055.665	3.445

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	SW01	SW02	48.549	0.600	71.740	71.570	0.170	285.6	375	5.76	50.0
1.001	SW02	SW03	31.856	0.600	71.570	71.460	0.110	289.6	375	6.26	50.0
1.002	SW03	Tank U2	14.564	0.600	71.460	71.410	0.050	291.3	375	6.49	50.0
1.003	Tank U2	SW05	9.892	0.600	70.900	70.870	0.030	329.7	375	6.66	50.0
2.000	U2 Dock	SW04	22.129	0.600	71.550	71.330	0.220	100.6	150	5.37	50.0
2.001	SW04	SW05	14.272	0.600	71.080	70.950	0.130	109.8	300	5.53	50.0
1.004	SW05	SW06/ FC	6.217	0.600	70.870	70.850	0.020	310.9	375	6.76	50.0
1.005	SW06/ FC	SW07	21.388	0.600	70.850	70.700	0.150	142.6	375	6.99	50.0
1.006	SW07	SW10	11.064	0.600	70.200	70.170	0.030	368.8	750	7.12	50.0
3.000	SW08	SW09	37.000	0.600	72.460	72.250	0.210	176.2	150	5.82	50.0
3.001	SW09	SW10	16.960	0.600	72.250	72.130	0.120	141.3	150	6.15	50.0
1.007	SW10	SW19	24.940	0.600	70.170	70.030	0.140	178.1	750	7.32	50.0
4.000	SW11	SW12	54.386	0.600	71.810	71.680	0.130	418.4	450	5.92	50.0
4.001	SW12	SW13	53.452	0.600	71.530	71.420	0.110	485.9	600	6.73	50.0
4.002	SW13	Tank U1	40.686	0.600	71.420	71.200	0.220	184.9	600	7.11	50.0
5.000	U1 Dock	SW16	19.787	0.600	71.650	71.510	0.140	141.3	225	5.30	50.0
6.000	SW14	SW15	10.249	0.600	71.420	71.380	0.040	256.2	375	5.15	50.0
6.001	SW15	SW16	8.361	0.600	71.380	71.350	0.030	278.7	375	5.28	50.0
5.001	SW16	SW17	24.778	0.600	71.350	71.170	0.180	137.7	375	5.57	50.0
5.002	SW17	Tank U1	11.106	0.600	71.170	70.910	0.260	42.7	375	5.63	50.0
4.003	Tank U1	SW18/ FC	6.783	0.600	70.500	70.470	0.030	226.1	225	7.24	50.0
4.004	SW18/ FC	SW19	9.481	0.600	70.470	70.420	0.050	189.6	225	7.41	50.0
7.000	RG01	SW19	11.846	0.600	72.000	71.920	0.080	148.1	150	5.24	50.0
1.008	SW19	SW26	12.134	0.600	70.030	69.990	0.040	303.3	750	7.53	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)
1.000	1.067	117.8	28.9	1.610	1.656	0.160	0.0
1.001	1.059	117.0	57.8	1.656	1.515	0.320	0.0
1.002	1.056	116.7	57.8	1.515	1.473	0.320	0.0
1.003	0.992	109.6	57.8	1.983	1.962	0.320	0.0
2.000	1.002	17.7	4.0	0.850	1.728	0.022	0.0
2.001	1.500	106.0	32.3	1.828	1.957	0.179	0.0
1.004	1.022	112.9	90.2	1.962	2.007	0.499	0.0
1.005	1.515	167.3	90.2	2.007	2.162	0.499	0.0
1.006	1.451	641.0	93.8	2.287	2.068	0.519	0.0
3.000	0.754	13.3	2.9	0.939	0.849	0.016	0.0
3.001	0.843	14.9	14.3	0.849	0.708	0.079	0.0
1.007	2.093	924.8	109.9	2.068	2.054	0.608	0.0
4.000	0.987	157.0	65.4	1.603	1.732	0.362	0.0
4.001	1.098	310.4	130.8	1.732	1.862	0.724	0.0
4.002	1.787	505.3	130.8	1.862	1.172	0.724	0.0
5.000	1.098	43.6	9.4	0.775	1.459	0.052	0.0
6.000	1.127	124.5	35.8	1.214	1.436	0.198	0.0
6.001	1.080	119.3	35.8	1.436	1.469	0.198	0.0
5.001	1.542	170.3	45.2	1.469	1.651	0.250	0.0
5.002	2.779	306.9	45.2	1.651	1.687	0.250	0.0
4.003	0.865	34.4	176.0	2.247	2.242	0.974	0.0
4.004	0.946	37.6	176.0	2.242	2.189	0.974	0.0
7.000	0.823	14.5	7.2	0.771	0.764	0.040	0.0
1.008	1.601	707.4	293.1	2.054	2.051	1.622	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	SW20	SW21	28.194	0.600	71.750	71.620	0.130	216.9	225	5.53	50.0
8.001	SW21	SW22	23.000	0.600	71.620	71.510	0.110	209.1	225	5.96	50.0
8.002	SW22	Tank U3a	8.037	0.600	71.510	71.470	0.040	200.9	225	6.10	50.0
9.000	SW23	SW24	9.584	0.600	71.630	71.560	0.070	136.9	150	5.19	50.0
9.001	SW24	Tank U3a	9.166	0.600	71.480	71.430	0.050	183.3	225	5.35	50.0
8.003	Tank U3a	SW25/ FC	10.300	0.600	70.800	70.750	0.050	206.0	225	6.29	50.0
8.004	SW25/ FC	SW26	12.450	0.600	70.750	70.690	0.060	207.5	225	6.52	50.0
1.009	SW26	SW33	13.285	0.600	69.990	69.950	0.040	332.1	750	7.68	50.0
10.000	SW27	SW28	28.614	0.600	71.750	71.620	0.130	220.1	225	5.54	50.0
10.001	SW28	SW29	23.000	0.600	71.620	71.510	0.110	209.1	225	5.97	50.0
10.002	SW29	Tank U3b	7.563	0.600	71.510	71.470	0.040	189.1	225	6.10	50.0
11.000	SW30	SW31	10.707	0.600	71.630	71.550	0.080	133.8	150	5.21	50.0
11.001	SW31	Tank U3b	10.234	0.600	71.470	71.420	0.050	204.7	225	5.39	50.0
10.003	Tank U3b	SW32/ FC	10.322	0.600	70.800	70.760	0.040	258.1	225	6.32	50.0
10.004	SW32/ FC	SW33	14.712	0.600	70.760	70.690	0.070	210.2	225	6.59	50.0
12.000	RG03	SW33	12.924	0.600	71.810	71.720	0.090	143.6	150	5.26	50.0
13.000	RG02	SW33	2.659	0.600	72.050	72.030	0.020	132.9	150	5.05	50.0
1.010	SW33	SW34	22.620	0.600	69.950	69.900	0.050	452.4	750	7.97	50.0
1.011	SW34	SW45	20.753	0.600	69.900	69.850	0.050	415.1	750	8.22	50.0
14.000	SW38	SW40	13.689	0.600	72.050	71.950	0.100	136.9	150	5.27	50.0
15.000	SW39	SW40	8.818	0.600	72.590	71.950	0.640	13.8	150	5.05	50.0
14.001	SW40	SW41	28.703	0.600	71.950	71.480	0.470	61.1	150	5.64	50.0
14.002	SW41	SW43	13.766	0.600	71.480	71.380	0.100	137.7	150	5.91	50.0
16.000	SW42	SW43	8.326	0.600	71.065	71.020	0.045	185.0	225	5.14	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	0.884	35.1	8.9	1.500	1.630	0.049	0.0
8.001	0.900	35.8	17.7	1.630	1.740	0.098	0.0
8.002	0.919	36.5	17.7	1.740	1.422	0.098	0.0
9.000	0.857	15.1	6.0	1.288	1.358	0.033	0.0
9.001	0.962	38.3	10.8	1.363	1.462	0.060	0.0
8.003	0.907	36.1	28.6	2.092	2.062	0.158	0.0
8.004	0.904	35.9	28.6	2.062	1.876	0.158	0.0
1.009	1.530	675.8	321.6	2.051	2.110	1.780	0.0
10.000	0.877	34.9	8.9	1.500	1.607	0.049	0.0
10.001	0.900	35.8	17.7	1.607	1.740	0.098	0.0
10.002	0.947	37.7	17.7	1.740	1.422	0.098	0.0
11.000	0.867	15.3	6.0	1.299	1.366	0.033	0.0
11.001	0.910	36.2	11.9	1.371	1.472	0.066	0.0
10.003	0.809	32.2	29.6	2.092	2.035	0.164	0.0
10.004	0.898	35.7	29.6	2.035	1.895	0.164	0.0
12.000	0.836	14.8	4.5	0.749	0.940	0.025	0.0
13.000	0.870	15.4	6.1	0.758	0.630	0.034	0.0
1.010	1.309	578.2	361.9	2.110	1.827	2.003	0.0
1.011	1.367	603.9	361.9	1.827	2.041	2.003	0.0
14.000	0.857	15.1	4.5	0.909	1.472	0.025	0.0
15.000	2.728	48.2	3.3	0.903	1.472	0.018	0.0
14.001	1.289	22.8	7.8	1.472	0.906	0.043	0.0
14.002	0.854	15.1	15.5	0.906	1.098	0.086	0.0
16.000	0.958	38.1	14.5	1.200	1.383	0.080	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)
14.003	SW43	Tank U4	14.893	0.600	70.940	70.890	0.050	300.0	300	6.18	50.0
17.000	SW35	SW36	35.769	0.600	70.870	70.750	0.120	298.1	300	5.66	50.0
17.001	SW36	SW37	17.637	0.600	70.670	70.620	0.050	352.7	375	5.97	50.0
17.002	SW37	Tank U4	6.716	0.600	70.620	70.600	0.020	335.8	375	6.08	50.0
14.004	Tank U4	SW44/ FC	11.906	0.600	69.900	69.820	0.080	148.8	150	6.42	50.0
14.005	SW44/ FC	SW45	15.839	0.600	69.820	69.710	0.110	144.0	150	6.74	50.0
18.000	RG04	SW45	8.199	0.600	71.730	71.670	0.060	136.7	150	5.16	50.0
1.012	SW45	SW46	20.544	0.600	69.410	69.360	0.050	410.9	750	8.47	50.0
1.013	SW46	SW47	22.364	0.600	69.360	69.310	0.050	450.0	750	8.75	50.0
1.014	SW47	SW48	17.565	0.600	69.310	69.270	0.040	439.1	750	8.97	50.0
19.000	RG05	SW48	4.181	0.600	70.070	70.000	0.070	59.7	150	5.05	50.0
1.015	SW48	EXTGSW05	36.620	0.600	69.250	69.128	0.122	300.0	750	9.35	50.0
20.000	SW63	SW64	32.000	0.600	77.820	77.600	0.220	145.5	150	5.64	50.0
20.001	SW64	SW66	16.899	0.600	77.600	77.400	0.200	84.5	150	5.90	50.0
21.000	SW65	SW66	32.000	0.600	77.620	77.400	0.220	145.5	150	5.64	50.0
20.002	SW66	SW67	16.898	0.600	77.320	77.000	0.320	52.8	225	6.06	50.0
20.003	SW67	SW68	64.999	0.600	76.920	76.560	0.360	180.6	300	6.98	50.0
20.004	SW68	EXTGSW01	34.863	0.600	76.560	75.920	0.640	54.5	300	7.26	50.0
20.005	EXTGSW01	EXTGSW02	29.959	0.600	75.770	74.540	1.230	24.4	300	7.41	50.0
22.000	SW53	SW54	20.024	0.600	74.470	74.400	0.070	286.1	300	5.36	50.0
22.001	SW54	SW55	15.499	0.600	74.400	74.340	0.060	258.3	300	5.63	50.0
22.002	SW55	SW56	18.250	0.600	74.340	74.270	0.070	260.7	300	5.94	50.0
22.003	SW56	SW57	10.246	0.600	74.270	74.200	0.070	146.4	300	6.07	50.0
22.004	SW57	SW59	26.610	0.600	74.050	73.850	0.200	133.1	450	6.32	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)
14.003	0.902	63.8	32.2	1.388	1.308	0.178	0.0
17.000	0.905	64.0	19.9	1.505	1.633	0.110	0.0
17.001	0.959	105.9	39.8	1.638	1.688	0.220	0.0
17.002	0.983	108.6	39.8	1.688	1.523	0.220	0.0
14.004	0.821	14.5	71.9	2.448	2.526	0.398	0.0
14.005	0.835	14.8	71.9	2.526	2.781	0.398	0.0
18.000	0.857	15.2	10.8	0.753	0.821	0.060	0.0
1.012	1.374	607.0	444.7	2.481	2.841	2.461	0.0
1.013	1.312	579.8	444.7	2.841	2.571	2.461	0.0
1.014	1.329	587.0	444.7	2.571	1.872	2.461	0.0
19.000	1.304	23.0	10.8	1.756	1.742	0.060	0.0
1.015	1.610	711.3	464.6	1.892	2.240	2.571	0.0
20.000	0.831	14.7	5.2	1.300	1.061	0.029	0.0
20.001	1.094	19.3	10.3	1.061	1.000	0.057	0.0
21.000	0.831	14.7	17.2	1.303	1.000	0.095	0.0
20.002	1.804	71.7	34.7	1.005	1.004	0.192	0.0
20.003	1.167	82.5	54.2	1.009	2.121	0.300	0.0
20.004	2.134	150.9	54.2	2.121	0.859	0.300	0.0
20.005	3.198	226.1	62.2	1.009	1.337	0.344	0.0
22.000	0.924	65.3	21.7	1.205	1.275	0.120	0.0
22.001	0.973	68.8	26.2	1.275	1.335	0.145	0.0
22.002	0.969	68.5	26.2	1.335	1.405	0.145	0.0
22.003	1.297	91.7	26.2	1.405	1.483	0.145	0.0
22.004	1.761	280.0	56.7	1.483	1.129	0.314	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)
23.000	U5 Dock	SW58	23.144	0.600	73.750	73.510	0.240	96.4	150	5.38	50.0
23.001	SW58	SW59	9.735	0.600	73.360	73.320	0.040	243.4	300	5.54	50.0
22.005	SW59	SW60	8.711	0.600	73.020	73.000	0.020	435.5	600	6.45	50.0
22.006	SW60	Tank U5	12.922	0.600	73.000	72.970	0.030	430.7	600	6.63	50.0
22.007	Tank U5	SW62/ FC	18.087	0.600	72.970	72.934	0.036	500.0	600	6.91	50.0
24.000	SW61	SW62/ FC	10.022	0.600	74.020	73.950	0.070	143.2	150	5.20	50.0
22.008	SW62/ FC	EXTGSW02	15.717	0.600	72.940	72.810	0.130	120.9	150	7.20	50.0
20.006	EXTGSW02	EXTGSW03	25.244	0.600	72.660	72.565	0.095	265.7	450	7.75	50.0
20.007	EXTGSW03	EXTGSW04	18.148	0.600	71.565	71.380	0.185	98.1	450	7.90	50.0
25.000	SW51	SW52	21.768	0.600	72.590	72.440	0.150	145.1	150	5.44	50.0
26.000	SW49	SW50	14.809	0.600	72.600	72.500	0.100	148.1	150	5.30	50.0
26.001	SW50	SW52	6.315	0.600	72.500	72.450	0.050	126.3	150	5.42	50.0
25.001	SW52	EXTGSW04	19.515	0.600	72.450	72.320	0.130	150.0	150	5.83	50.0
20.008	EXTGSW04	EXTGSW05	26.529	0.600	70.864	70.600	0.264	100.5	450	8.12	50.0
1.016	EXTGSW05	EXTGSW06	57.770	0.600	68.750	68.555	0.195	296.3	300	10.41	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)
23.000	1.023	18.1	6.3	0.850	1.769	0.035	0.0
23.001	1.003	70.9	32.3	1.769	1.809	0.179	0.0
22.005	1.160	328.0	89.1	1.809	2.047	0.493	0.0
22.006	1.167	329.9	89.1	2.047	1.905	0.493	0.0
22.007	1.082	305.9	89.1	1.905	2.009	0.493	0.0
24.000	0.838	14.8	2.0	1.204	1.443	0.011	0.0
22.008	0.913	16.1	92.7	2.453	3.217	0.513	0.0
20.006	1.242	197.5	162.1	3.067	1.902	0.897	0.0
20.007	2.052	326.4	167.0	2.902	1.823	0.924	0.0
25.000	0.832	14.7	8.9	0.884	1.050	0.049	0.0
26.000	0.823	14.5	4.5	0.906	1.006	0.025	0.0
26.001	0.893	15.8	4.5	1.006	1.040	0.025	0.0
25.001	0.818	14.5	15.5	1.040	1.183	0.086	0.0
20.008	2.028	322.5	188.7	2.339	1.068	1.044	0.0
1.016	0.908	64.2	656.3	3.068	3.145	3.632	0.0

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	48.549	285.6	375	Circular	73.725	71.740	1.610	73.601	71.570	1.656
1.001	31.856	289.6	375	Circular	73.601	71.570	1.656	73.350	71.460	1.515
1.002	14.564	291.3	375	Circular	73.350	71.460	1.515	73.258	71.410	1.473
1.003	9.892	329.7	375	Circular	73.258	70.900	1.983	73.207	70.870	1.962
2.000	22.129	100.6	150	Circular	72.550	71.550	0.850	73.208	71.330	1.728

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	SW01	1350		Manhole	Adoptable	SW02	1350	Manhole	Adoptable
1.001	SW02	1350		Manhole	Adoptable	SW03	1350	Manhole	Adoptable
1.002	SW03	1350		Manhole	Adoptable	Tank U2	1350	Manhole	Adoptable
1.003	Tank U2	1350		Manhole	Adoptable	SW05	1350	Manhole	Adoptable
2.000	U2 Dock	450	450	Manhole	Adoptable	SW04	1200	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)
2.001	14.272	109.8	300	Circular	73.208	71.080	1.828	73.207	70.950	1.957
1.004	6.217	310.9	375	Circular	73.207	70.870	1.962	73.232	70.850	2.007
1.005	21.388	142.6	375	Circular	73.232	70.850	2.007	73.237	70.700	2.162
1.006	11.064	368.8	750	Circular	73.237	70.200	2.287	72.988	70.170	2.068
3.000	37.000	176.2	150	Circular	73.549	72.460	0.939	73.249	72.250	0.849
3.001	16.960	141.3	150	Circular	73.249	72.250	0.849	72.988	72.130	0.708
1.007	24.940	178.1	750	Circular	72.988	70.170	2.068	72.834	70.030	2.054
4.000	54.386	418.4	450	Circular	73.863	71.810	1.603	73.862	71.680	1.732
4.001	53.452	485.9	600	Circular	73.862	71.530	1.732	73.882	71.420	1.862
4.002	40.686	184.9	600	Circular	73.882	71.420	1.862	72.972	71.200	1.172
5.000	19.787	141.3	225	Circular	72.650	71.650	0.775	73.194	71.510	1.459
6.000	10.249	256.2	375	Circular	73.009	71.420	1.214	73.191	71.380	1.436
6.001	8.361	278.7	375	Circular	73.191	71.380	1.436	73.194	71.350	1.469
5.001	24.778	137.7	375	Circular	73.194	71.350	1.469	73.196	71.170	1.651
5.002	11.106	42.7	375	Circular	73.196	71.170	1.651	72.972	70.910	1.687
4.003	6.783	226.1	225	Circular	72.972	70.500	2.247	72.937	70.470	2.242
4.004	9.481	189.6	225	Circular	72.937	70.470	2.242	72.834	70.420	2.189
7.000	11.846	148.1	150	Circular	72.921	72.000	0.771	72.834	71.920	0.764
1.008	12.134	303.3	750	Circular	72.834	70.030	2.054	72.791	69.990	2.051
8.000	28.194	216.9	225	Circular	73.475	71.750	1.500	73.475	71.620	1.630
8.001	23.000	209.1	225	Circular	73.475	71.620	1.630	73.475	71.510	1.740
8.002	8.037	200.9	225	Circular	73.475	71.510	1.740	73.117	71.470	1.422
9.000	9.584	136.9	150	Circular	73.068	71.630	1.288	73.068	71.560	1.358
9.001	9.166	183.3	225	Circular	73.068	71.480	1.363	73.117	71.430	1.462
8.003	10.300	206.0	225	Circular	73.117	70.800	2.092	73.037	70.750	2.062

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.001	SW04	1200	450	Manhole	Adoptable	SW05	1350	Manhole	Adoptable
1.004	SW05	1350		Manhole	Adoptable	SW06/ FC	1350	Manhole	Adoptable
1.005	SW06/ FC	1350		Manhole	Adoptable	SW07	1800	Manhole	Adoptable
1.006	SW07	1800		Manhole	Adoptable	SW10	1800	Manhole	Adoptable
3.000	SW08	1200		Manhole	Adoptable	SW09	1200	Manhole	Adoptable
3.001	SW09	1200		Manhole	Adoptable	SW10	1800	Manhole	Adoptable
1.007	SW10	1800		Manhole	Adoptable	SW19	1800	Manhole	Adoptable
4.000	SW11	1500		Manhole	Adoptable	SW12	1500	Manhole	Adoptable
4.001	SW12	1500		Manhole	Adoptable	SW13	1500	Manhole	Adoptable
4.002	SW13	1500		Manhole	Adoptable	Tank U1	1500	Manhole	Adoptable
5.000	U1 Dock	450	450	Manhole	Adoptable	SW16	1350	Manhole	Adoptable
6.000	SW14	1350		Manhole	Adoptable	SW15	1350	Manhole	Adoptable
6.001	SW15	1350		Manhole	Adoptable	SW16	1350	Manhole	Adoptable
5.001	SW16	1350		Manhole	Adoptable	SW17	1350	Manhole	Adoptable
5.002	SW17	1350		Manhole	Adoptable	Tank U1	1500	Manhole	Adoptable
4.003	Tank U1	1500		Manhole	Adoptable	SW18/ FC	1500	Manhole	Adoptable
4.004	SW18/ FC	1500		Manhole	Adoptable	SW19	1800	Manhole	Adoptable
7.000	RG01	450		Manhole	Adoptable	SW19	1800	Manhole	Adoptable
1.008	SW19	1800		Manhole	Adoptable	SW26	1800	Manhole	Adoptable
8.000	SW20	1200		Manhole	Adoptable	SW21	1200	Manhole	Adoptable
8.001	SW21	1200	450	Manhole	Adoptable	SW22	1200	Manhole	Adoptable
8.002	SW22	1200		Manhole	Adoptable	Tank U3a	1200	Manhole	Adoptable
9.000	SW23	1200		Manhole	Adoptable	SW24	1200	Manhole	Adoptable
9.001	SW24	1200		Manhole	Adoptable	Tank U3a	1200	Manhole	Adoptable
8.003	Tank U3a	1200	450	Manhole	Adoptable	SW25/ FC	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)
8.004	12.450	207.5	225	Circular	73.037	70.750	2.062	72.791	70.690	1.876
1.009	13.285	332.1	750	Circular	72.791	69.990	2.051	72.810	69.950	2.110
10.000	28.614	220.1	225	Circular	73.475	71.750	1.500	73.452	71.620	1.607
10.001	23.000	209.1	225	Circular	73.452	71.620	1.607	73.475	71.510	1.740
10.002	7.563	189.1	225	Circular	73.475	71.510	1.740	73.117	71.470	1.422
11.000	10.707	133.8	150	Circular	73.079	71.630	1.299	73.066	71.550	1.366
11.001	10.234	204.7	225	Circular	73.066	71.470	1.371	73.117	71.420	1.472
10.003	10.322	258.1	225	Circular	73.117	70.800	2.092	73.020	70.760	2.035
10.004	14.712	210.2	225	Circular	73.020	70.760	2.035	72.810	70.690	1.895
12.000	12.924	143.6	150	Circular	72.709	71.810	0.749	72.810	71.720	0.940
13.000	2.659	132.9	150	Circular	72.958	72.050	0.758	72.810	72.030	0.630
1.010	22.620	452.4	750	Circular	72.810	69.950	2.110	72.477	69.900	1.827
1.011	20.753	415.1	750	Circular	72.477	69.900	1.827	72.641	69.850	2.041
14.000	13.689	136.9	150	Circular	73.109	72.050	0.909	73.572	71.950	1.472
15.000	8.818	13.8	150	Circular	73.643	72.590	0.903	73.572	71.950	1.472
14.001	28.703	61.1	150	Circular	73.572	71.950	1.472	72.536	71.480	0.906
14.002	13.766	137.7	150	Circular	72.536	71.480	0.906	72.628	71.380	1.098
16.000	8.326	185.0	225	Circular	72.490	71.065	1.200	72.628	71.020	1.383
14.003	14.893	300.0	300	Circular	72.628	70.940	1.388	72.498	70.890	1.308
17.000	35.769	298.1	300	Circular	72.675	70.870	1.505	72.683	70.750	1.633
17.001	17.637	352.7	375	Circular	72.683	70.670	1.638	72.683	70.620	1.688
17.002	6.716	335.8	375	Circular	72.683	70.620	1.688	72.498	70.600	1.523
14.004	11.906	148.8	150	Circular	72.498	69.900	2.448	72.496	69.820	2.526
14.005	15.839	144.0	150	Circular	72.496	69.820	2.526	72.641	69.710	2.781
18.000	8.199	136.7	150	Circular	72.633	71.730	0.753	72.641	71.670	0.821

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
8.004	SW25/ FC	1350		Manhole	Adoptable	SW26	1800	Manhole	Adoptable
1.009	SW26	1800		Manhole	Adoptable	SW33	1800	Manhole	Adoptable
10.000	SW27	1200		Manhole	Adoptable	SW28	1200	Manhole	Adoptable
10.001	SW28	1200		Manhole	Adoptable	SW29	1200	Manhole	Adoptable
10.002	SW29	1200		Manhole	Adoptable	Tank U3b	1200	Manhole	Adoptable
11.000	SW30	1200		Manhole	Adoptable	SW31	1200	Manhole	Adoptable
11.001	SW31	1200		Manhole	Adoptable	Tank U3b	1200	Manhole	Adoptable
10.003	Tank U3b	1200		Manhole	Adoptable	SW32/ FC	1350	Manhole	Adoptable
10.004	SW32/ FC	1350		Manhole	Adoptable	SW33	1800	Manhole	Adoptable
12.000	RG03	450		Manhole	Adoptable	SW33	1800	Manhole	Adoptable
13.000	RG02	450		Manhole	Adoptable	SW33	1800	Manhole	Adoptable
1.010	SW33	1800		Manhole	Adoptable	SW34	1800	Manhole	Adoptable
1.011	SW34	1800		Manhole	Adoptable	SW45	1800	Manhole	Adoptable
14.000	SW38	1200		Manhole	Adoptable	SW40	1200	Manhole	Adoptable
15.000	SW39	1200		Manhole	Adoptable	SW40	1200	Manhole	Adoptable
14.001	SW40	1200		Manhole	Adoptable	SW41	1200	Manhole	Adoptable
14.002	SW41	1200		Manhole	Adoptable	SW43	1200	Manhole	Adoptable
16.000	SW42	1200		Manhole	Adoptable	SW43	1200	Manhole	Adoptable
14.003	SW43	1200		Manhole	Adoptable	Tank U4	1350	Manhole	Adoptable
17.000	SW35	1200		Manhole	Adoptable	SW36	1200	Manhole	Adoptable
17.001	SW36	1200		Manhole	Adoptable	SW37	1200	Manhole	Adoptable
17.002	SW37	1200		Manhole	Adoptable	Tank U4	1350	Manhole	Adoptable
14.004	Tank U4	1350		Manhole	Adoptable	SW44/ FC	1500	Manhole	Adoptable
14.005	SW44/ FC	1500		Manhole	Adoptable	SW45	1800	Manhole	Adoptable
18.000	RG04	450		Manhole	Adoptable	SW45	1800	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)
1.012	20.544	410.9	750	Circular	72.641	69.410	2.481	72.951	69.360	2.841
1.013	22.364	450.0	750	Circular	72.951	69.360	2.841	72.631	69.310	2.571
1.014	17.565	439.1	750	Circular	72.631	69.310	2.571	71.892	69.270	1.872
19.000	4.181	59.7	150	Circular	71.976	70.070	1.756	71.892	70.000	1.742
1.015	36.620	300.0	750	Circular	71.892	69.250	1.892	72.118	69.128	2.240
20.000	32.000	145.5	150	Circular	79.270	77.820	1.300	78.811	77.600	1.061
20.001	16.899	84.5	150	Circular	78.811	77.600	1.061	78.550	77.400	1.000
21.000	32.000	145.5	150	Circular	79.073	77.620	1.303	78.550	77.400	1.000
20.002	16.898	52.8	225	Circular	78.550	77.320	1.005	78.229	77.000	1.004
20.003	64.999	180.6	300	Circular	78.229	76.920	1.009	78.981	76.560	2.121
20.004	34.863	54.5	300	Circular	78.981	76.560	2.121	77.079	75.920	0.859
20.005	29.959	24.4	300	Circular	77.079	75.770	1.009	76.177	74.540	1.337
22.000	20.024	286.1	300	Circular	75.975	74.470	1.205	75.975	74.400	1.275
22.001	15.499	258.3	300	Circular	75.975	74.400	1.275	75.975	74.340	1.335
22.002	18.250	260.7	300	Circular	75.975	74.340	1.335	75.975	74.270	1.405
22.003	10.246	146.4	300	Circular	75.975	74.270	1.405	75.983	74.200	1.483
22.004	26.610	133.1	450	Circular	75.983	74.050	1.483	75.429	73.850	1.129
23.000	23.144	96.4	150	Circular	74.750	73.750	0.850	75.429	73.510	1.769
23.001	9.735	243.4	300	Circular	75.429	73.360	1.769	75.429	73.320	1.809
22.005	8.711	435.5	600	Circular	75.429	73.020	1.809	75.647	73.000	2.047
22.006	12.922	430.7	600	Circular	75.647	73.000	2.047	75.475	72.970	1.905
22.007	18.087	500.0	600	Circular	75.475	72.970	1.905	75.543	72.934	2.009
24.000	10.022	143.2	150	Circular	75.374	74.020	1.204	75.543	73.950	1.443
22.008	15.717	120.9	150	Circular	75.543	72.940	2.453	76.177	72.810	3.217
20.006	25.244	265.7	450	Circular	76.177	72.660	3.067	74.917	72.565	1.902

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.012	SW45	1800		Manhole	Adoptable	SW46	1800	Manhole	Adoptable
1.013	SW46	1800		Manhole	Adoptable	SW47	1800	Manhole	Adoptable
1.014	SW47	1800		Manhole	Adoptable	SW48	1800	Manhole	Adoptable
19.000	RG05	450		Manhole	Adoptable	SW48	1800	Manhole	Adoptable
1.015	SW48	1800		Manhole	Adoptable	EXTGSW05	1800	Manhole	Adoptable
20.000	SW63	1200		Manhole	Adoptable	SW64	1200	Manhole	Adoptable
20.001	SW64	1200		Manhole	Adoptable	SW66	1200	Manhole	Adoptable
21.000	SW65	1200		Manhole	Adoptable	SW66	1200	Manhole	Adoptable
20.002	SW66	1200		Manhole	Adoptable	SW67	1200	Manhole	Adoptable
20.003	SW67	1200		Manhole	Adoptable	SW68	1200	Manhole	Adoptable
20.004	SW68	1200		Manhole	Adoptable	EXTGSW01	1200	Manhole	Adoptable
20.005	EXTGSW01	1200		Manhole	Adoptable	EXTGSW02	1350	Manhole	Adoptable
22.000	SW53	1200		Manhole	Adoptable	SW54	1200	Manhole	Adoptable
22.001	SW54	1200		Manhole	Adoptable	SW55	1200	Manhole	Adoptable
22.002	SW55	1200		Manhole	Adoptable	SW56	1200	Manhole	Adoptable
22.003	SW56	1200		Manhole	Adoptable	SW57	1500	Manhole	Adoptable
22.004	SW57	1500		Manhole	Adoptable	SW59	1500	Manhole	Adoptable
23.000	U5 Dock	450	450	Manhole	Adoptable	SW58	1200	Manhole	Adoptable
23.001	SW58	1200		Manhole	Adoptable	SW59	1500	Manhole	Adoptable
22.005	SW59	1500		Manhole	Adoptable	SW60	1500	Manhole	Adoptable
22.006	SW60	1500		Manhole	Adoptable	Tank U5	1350	Manhole	Adoptable
22.007	Tank U5	1350		Manhole	Adoptable	SW62/ FC	1500	Manhole	Adoptable
24.000	SW61	1200		Manhole	Adoptable	SW62/ FC	1500	Manhole	Adoptable
22.008	SW62/ FC	1500		Manhole	Adoptable	EXTGSW02	1350	Manhole	Adoptable
20.006	EXTGSW02	1350		Manhole	Adoptable	EXTGSW03	1350	Manhole	Adoptable

Pipeline Schedule

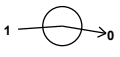
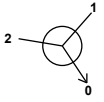
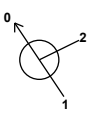
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
20.007	18.148	98.1	450	Circular	74.917	71.565	2.902	73.653	71.380	1.823
25.000	21.768	145.1	150	Circular	73.624	72.590	0.884	73.640	72.440	1.050
26.000	14.809	148.1	150	Circular	73.656	72.600	0.906	73.656	72.500	1.006
26.001	6.315	126.3	150	Circular	73.656	72.500	1.006	73.640	72.450	1.040
25.001	19.515	150.0	150	Circular	73.640	72.450	1.040	73.653	72.320	1.183
20.008	26.529	100.5	450	Circular	73.653	70.864	2.339	72.118	70.600	1.068
1.016	57.770	296.3	300	Circular	72.118	68.750	3.068	72.000	68.555	3.145

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
20.007	EXTGSW03	1350		Manhole	Adoptable	EXTGSW04	1350	Manhole	Adoptable
25.000	SW51	1200		Manhole	Adoptable	SW52	1200	Manhole	Adoptable
26.000	SW49	1200		Manhole	Adoptable	SW50	1200	Manhole	Adoptable
26.001	SW50	1200		Manhole	Adoptable	SW52	1200	Manhole	Adoptable
25.001	SW52	1200		Manhole	Adoptable	EXTGSW04	1350	Manhole	Adoptable
20.008	EXTGSW04	1350		Manhole	Adoptable	EXTGSW05	1800	Manhole	Adoptable
1.016	EXTGSW05	1800		Manhole	Adoptable	EXTGSW06	1200	Manhole	Adoptable

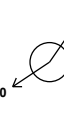
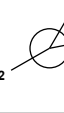
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
SW01	472709.042	169110.928	73.725	1.985	1350					
							0	1.000	71.740	375
SW02	472712.416	169062.496	73.601	2.031	1350					
							1	1.000	71.570	375
							0	1.001	71.570	375
SW03	472721.623	169032.000	73.350	1.890	1350					
							1	1.001	71.460	375
							0	1.002	71.460	375
Tank U2	472735.720	169035.660	73.258	2.358	1350					
							1	1.002	71.410	375
							0	1.003	70.900	375
U2 Dock	472720.186	169061.300	72.550	1.000	450	450				
							0	2.000	71.550	150
SW04	472729.059	169041.028	73.208	2.128	1200					
							1	2.000	71.330	150
							0	2.001	71.080	300
SW05	472743.296	169042.020	73.207	2.337	1350					
							1	2.001	70.950	300
							2	1.003	70.870	375
							0	1.004	70.870	375

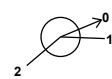
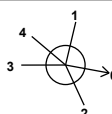
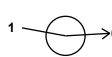
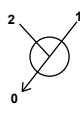
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
SW06/ FC	472742.864	169048.222	73.232	2.382	1350			1 1.004	70.850	375
SW07	472764.201	169049.696	73.237	3.037	1800			0 1.005 1 1.005	70.850 70.700	375 375
SW08	472783.734	169097.527	73.549	1.089	1200			0 1.006	70.200	750
SW09	472786.330	169060.618	73.249	0.999	1200			1 3.000 0 3.001	72.460 72.250	150 150
SW10	472775.117	169047.893	72.988	2.818	1800			1 3.001 2 1.006 0 1.007	72.130 70.170 70.170	150 750 750
SW11	472825.021	169152.939	73.863	2.053	1500			0 4.000	71.810	450
SW12	472779.814	169122.703	73.862	2.332	1500			1 4.000 0 4.001	71.680 71.530	450 600
SW13	472808.852	169077.826	73.882	2.462	1500			1 4.001 0 4.002	71.420 71.420	600 600
U1 Dock	472833.433	169037.140	72.650	1.000	450	450		0 5.000	71.650	225
SW14	472811.805	169015.762	73.009	1.589	1350			0 6.000	71.420	375
SW15	472820.324	169021.461	73.191	1.811	1350			1 6.000 0 6.001	71.380 71.380	375 375
SW16	472815.676	169028.411	73.194	1.844	1350			1 6.001 2 5.000 0 5.001	71.350 71.510 71.350	375 225 375
SW17	472801.900	169049.007	73.196	2.026	1350			1 5.001 0 5.002	71.170 71.170	375 375

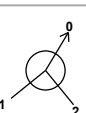
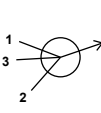
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
Tank U1	472800.686	169037.968	72.972	2.472	1500			1 5.002 70.910 375 2 4.002 71.200 600		
SW18/ FC	472796.831	169032.387	72.937	2.467	1500			1 4.003 70.470 225 0 4.004 70.470 225		
RG01	472784.331	169038.046	72.921	0.921	450			0 7.000 72.000 150		
SW19	472788.939	169027.133	72.834	2.804	1800			1 7.000 71.920 150 2 4.004 70.420 225 3 1.007 70.030 750 0 1.008 70.030 750		
SW20	472730.161	169017.080	73.475	1.725	1200			0 8.000 71.750 225		
SW21	472753.596	169032.754	73.475	1.855	1200			1 8.000 71.620 225 0 8.001 71.620 225		
SW22	472766.388	169013.639	73.475	1.965	1200			1 8.001 71.510 225 0 8.002 71.510 225		
SW23	472783.325	169017.574	73.068	1.438	1200			0 9.000 71.630 150		
SW24	472777.996	169025.540	73.068	1.588	1200			1 9.000 71.560 150 0 9.001 71.480 225		
Tank U3a	472773.364	169017.630	73.117	2.317	1200			1 9.001 71.430 225 2 8.002 71.470 225 0 8.003 70.800 225		
SW25/ FC	472783.477	169019.582	73.037	2.287	1350			1 8.003 70.750 225 0 8.004 70.750 225		
SW26	472795.663	169017.033	72.791	2.801	1800			1 8.004 70.690 225 2 1.008 69.990 750 0 1.009 69.990 750		
SW27	472764.795	168964.541	73.475	1.725	1200			0 10.000 71.750 225		

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
SW28	472788.579	168980.450	73.452	1.832	1200			1	10.000	71.620	225
								0	10.001	71.620	225
SW29	472775.797	168999.571	73.475	1.965	1200			1	10.001	71.510	225
								0	10.002	71.510	225
SW30	472785.841	169012.985	73.079	1.449	1200			0	11.000	71.630	150
SW31	472791.793	169004.085	73.066	1.596	1200			1	11.000	71.550	150
								0	11.001	71.470	225
Tank U3b	472781.566	169004.462	73.117	2.317	1200			1	11.001	71.420	225
								2	10.002	71.470	225
								0	10.003	70.800	225
SW32/ FC	472791.095	169008.430	73.020	2.260	1350			1	10.003	70.760	225
								0	10.004	70.760	225
RG03	472811.238	168996.727	72.709	0.899	450						
								0	12.000	71.810	150
RG02	472806.421	169011.042	72.958	0.908	450			0	13.000	72.050	150
SW33	472805.807	169008.455	72.810	2.860	1800			1	13.000	72.030	150
								2	12.000	71.720	150
								3	10.004	70.690	225
								4	1.009	69.950	750
								0	1.010	69.950	750
SW34	472828.055	169004.369	72.477	2.577	1800			1	1.010	69.900	750
								0	1.011	69.900	750
SW38	472862.760	168999.260	73.109	1.059	1200			0	14.000	72.050	150
SW39	472877.453	168996.109	73.643	1.053	1200			0	15.000	72.590	150
SW40	472872.011	168989.170	73.572	1.622	1200			1	15.000	71.950	150
								2	14.000	71.950	150
								0	14.001	71.950	150

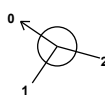
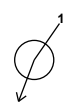
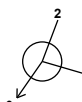
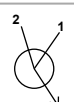
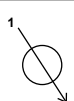
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
SW41	472854.297	168966.585	72.536	1.056	1200		1	14.001	71.480	150
							0	14.002	71.480	150
SW42	472846.747	168978.477	72.490	1.425	1200		0	16.000	71.065	225
SW43	472841.609	168971.925	72.628	1.688	1200		1	16.000	71.020	225
							2	14.002	71.380	150
							0	14.003	70.940	300
SW35	472791.007	168961.963	72.675	1.805	1200		0	17.000	70.870	300
SW36	472813.080	168990.109	72.683	2.013	1200		1	17.000	70.750	300
							0	17.001	70.670	375
SW37	472826.958	168979.225	72.683	2.063	1200		1	17.001	70.620	375
							0	17.002	70.620	375
Tank U4	472832.178	168983.451	72.498	2.598	1350		1	17.002	70.600	375
							2	14.003	70.890	300
							0	14.004	69.900	150
SW44/ FC	472838.306	168993.659	72.496	2.676	1500		1	14.004	69.820	150
							0	14.005	69.820	150
RG04	472841.114	169008.467	72.633	0.903	450		0	18.000	71.730	150
SW45	472848.775	169005.545	72.641	3.231	1800		1	18.000	71.670	150
							2	14.005	69.710	150
							3	1.011	69.850	750
							0	1.012	69.410	750
SW46	472868.220	169012.174	72.951	3.591	1800		1	1.012	69.360	750
							0	1.013	69.360	750
SW47	472887.371	169023.723	72.631	3.321	1800		1	1.013	69.310	750
							0	1.014	69.310	750
RG05	472899.027	169036.063	71.976	1.906	450		0	19.000	70.070	150

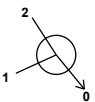
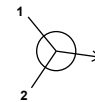
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
SW48	472902.125	169033.255	71.892	2.642	1800			1	19.000	70.000	150
								2	1.014	69.270	750
								0	1.015	69.250	750
SW63	472925.004	169209.113	79.270	1.450	1200			0	20.000	77.820	150
SW64	472956.540	169203.686	78.811	1.211	1200			1	20.000	77.600	150
						0		20.001	77.600	150	
SW65	472922.141	169192.457	79.073	1.453	1200			0	21.000	77.620	150
SW66	472953.678	169187.031	78.550	1.230	1200			1	21.000	77.400	150
								2	20.001	77.400	150
								0	20.002	77.320	225
SW67	472950.815	169170.377	78.229	1.309	1200			1	20.002	77.000	225
								0	20.003	76.920	300
SW68	472886.757	169181.400	78.981	2.421	1200			1	20.003	76.560	300
						0		20.004	76.560	300	
EXTGSW01	472873.456	169149.174	77.079	1.309	1200			1	20.004	75.920	300
						0		20.005	75.770	300	
SW53	472983.918	169148.764	75.975	1.505	1200			0	22.000	74.470	300
SW54	472967.371	169160.040	75.975	1.575	1200			1	22.000	74.400	300
								0	22.001	74.400	300
SW55	472958.643	169147.232	75.975	1.635	1200			1	22.001	74.340	300
						0		22.002	74.340	300	
SW56	472943.562	169157.509	75.975	1.705	1200			1	22.002	74.270	300
								0	22.003	74.270	300
SW57	472937.790	169149.043	75.983	1.933	1500			1	22.003	74.200	300
								0	22.004	74.050	450

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
U5 Dock	472921.195	169130.017	74.750	1.000	450	450		0	23.000	73.750	150
SW58	472906.638	169148.010	75.429	2.069	1200			1	23.000	73.510	150
								0	23.001	73.360	300
SW59	472912.120	169156.055	75.429	2.409	1500			1	23.001	73.320	300
								2	22.004	73.850	450
								0	22.005	73.020	600
SW60	472904.922	169160.961	75.647	2.647	1500			1	22.005	73.000	600
								0	22.006	73.000	600
Tank U5	472897.558	169150.343	75.475	2.505	1350			1	22.006	72.970	600
								0	22.007	72.970	600
SW61	472900.791	169130.616	75.374	1.354	1200			0	24.000	74.020	150
SW62/ FC	472891.170	169133.422	75.543	2.609	1500			1	24.000	73.950	150
								2	22.007	72.934	600
								0	22.008	72.940	150
EXTGSW02	472882.197	169120.518	76.177	3.517	1350			1	22.008	72.810	150
								2	20.005	74.540	300
								0	20.006	72.660	450
EXTGSW03	472895.921	169099.330	74.917	3.352	1350			1	20.006	72.565	450
								0	20.007	71.565	450
SW51	472875.934	169094.084	73.624	1.034	1200			0	25.000	72.590	150
SW49	472898.672	169057.840	73.656	1.056	1200			0	26.000	72.600	150
SW50	472890.439	169070.150	73.656	1.156	1200			1	26.000	72.500	150
								0	26.001	72.500	150
SW52	472888.036	169075.990	73.640	1.200	1200			1	26.001	72.450	150
								2	25.000	72.440	150
								0	25.001	72.450	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
EXTGSW04	472905.787	169084.098	73.653	2.789	1350			1	25.001	72.320	150
								2	20.007	71.380	450
								0	20.008	70.864	450
EXTGSW05	472922.626	169063.598	72.118	3.368	1800			1	20.008	70.600	450
								2	1.015	69.128	750
								0	1.016	68.750	300
EXTGSW06	472979.849	169055.665	72.000	3.445	1200			1	1.016	68.555	300

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	1800	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

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

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
30	35	0	0
100	40	0	0

Node SW06/ FC Online Hydro-Brake® Control

Flap Valve	x	Objective	(CU) Linear Discharge
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	70.850	Product Number	CTL-SCU-0043-2500-1700-2500
Design Depth (m)	1.700	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	2.5	Min Node Diameter (mm)	1200

Node SW18/ FC Online Hydro-Brake® Control

Flap Valve	x	Objective	(CU) Linear Discharge
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	70.470	Product Number	CTL-SCU-0069-7000-2100-7000
Design Depth (m)	2.100	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	7.0	Min Node Diameter (mm)	1200

Node SW25/ FC Online Hydro-Brake® Control

Flap Valve	x	Objective	(CU) Linear Discharge
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	70.750	Product Number	CTL-SCU-0031-1500-2000-1500
Design Depth (m)	2.000	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.5	Min Node Diameter (mm)	1200

Node SW32/ FC Online Hydro-Brake® Control

Flap Valve	x	Objective	(CU) Linear Discharge
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	70.760	Product Number	CTL-SCU-0031-1500-2000-1500
Design Depth (m)	2.000	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	1.5	Min Node Diameter (mm)	1200

Node SW34 Online Orifice Control

Flap Valve	x	Invert Level (m)	69.900	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.060		

Node SW52 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.450	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node SW63 Online Orifice Control

Flap Valve	x	Invert Level (m)	77.820	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node SW64 Online Orifice Control

Flap Valve	x	Invert Level (m)	77.600	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.055		

Node SW65 Online Orifice Control

Flap Valve	x	Invert Level (m)	77.620	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node SW66 Online Orifice Control

Flap Valve	x	Invert Level (m)	77.320	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.075		

Node SW47 Online Orifice Control

Flap Valve	x	Design Depth (m)	3.200	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Design Flow (l/s)	9.0		
Invert Level (m)	69.310	Diameter (m)	0.050		

Node SW44/ FC Online Hydro-Brake® Control

Flap Valve	x	Objective	(CU) Linear Discharge
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	69.820	Product Number	CTL-SCU-0043-3000-2500-3000
Design Depth (m)	2.500	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	3.0	Min Node Diameter (mm)	1200

Node SW40 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.950	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node SW41 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.480	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node EXTGSW05 Online Head/Flow Control

Flap Valve	x	Replaces Downstream Link	✓	Invert Level (m)	68.750
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Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)
0.100	18.200	0.700	18.200	1.300	49.300	1.800	49.300	2.400	49.300	3.000	49.300
0.200	18.200	0.800	49.300	1.400	49.300	1.900	49.300	2.500	49.300	3.100	49.300
0.300	18.200	0.900	49.300	1.500	49.300	2.000	49.300	2.600	49.300	3.200	49.300
0.400	18.200	1.000	49.300	1.600	49.300	2.100	49.300	2.700	49.300	3.300	68.300
0.500	18.200	1.100	49.300	1.650	49.300	2.200	49.300	2.800	49.300		
0.600	18.200	1.200	49.300	1.700	49.300	2.300	49.300	2.900	49.300		

Node SW62/ FC Online Hydro-Brake® Control

Flap Valve	x	Objective	(CU) Linear Discharge
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	72.940	Product Number	CTL-SCU-0045-3000-2000-3000
Design Depth (m)	2.000	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	3.0	Min Node Diameter (mm)	1200

Node SW68 Online Orifice Control

Flap Valve	x	Invert Level (m)	76.560	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node SW08 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.460	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node SW09 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.250	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node SW61 Online Orifice Control

Flap Valve	x	Invert Level (m)	74.020	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node EXTGSW02 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.660	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.120		

Node EXTGSW04 Online Orifice Control

Flap Valve	x	Invert Level (m)	70.864	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.150		

Node EXTGSW03 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.565	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.140		

Node RG01 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.000	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.110		

Node RG02 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.050	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.090		

Node RG03 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.810	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.075		

Node RG04 Online Orifice Control

Flap Valve	x	Invert Level (m)	71.730	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.090		

Node RG05 Online Orifice Control

Flap Valve	x	Invert Level (m)	70.070	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.100		

Node SW49 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.600	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node SW51 Online Orifice Control

Flap Valve	x	Invert Level (m)	72.590	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.050		

Node EXTGSW01 Online Orifice Control

Flap Valve	x	Invert Level (m)	75.770	Discharge Coefficient	0.600
Replaces Downstream Link	✓	Diameter (m)	0.120		

Node Tank U1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	70.500
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

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	628.0	0.0	1.500	628.0	0.0	1.501	0.0	0.0

Node Tank U2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	70.900
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

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	320.0	0.0	1.500	320.0	0.0	1.501	0.0	0.0

Node Tank U3a Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	70.800
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

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	144.0	0.0	1.500	144.0	0.0	1.501	0.0	0.0

Node Tank U3b Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	70.800
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

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	144.0	0.0	1.500	144.0	0.0	1.501	0.0	0.0

Node Tank U4 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	69.900
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

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	262.5	0.0	1.500	262.5	0.0	1.501	0.0	0.0

Node Tank U5 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	72.970
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	1770

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	297.0	0.0	1.500	297.0	0.0	1.501	0.0	0.0

Node SW07 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.780	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.450
Safety Factor	2.0	Width (m)	17.250	Inf Depth (m)	
Porosity	0.30	Length (m)	11.590		

Node SW08 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	73.090	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	62	Depth (m)	0.450
Safety Factor	2.0	Width (m)	32.000	Inf Depth (m)	
Porosity	0.30	Length (m)	5.000		

Node SW09 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.800	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	128	Depth (m)	0.450
Safety Factor	2.0	Width (m)	11.000	Inf Depth (m)	
Porosity	0.30	Length (m)	57.270		

Node SW10 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.450	Slope (1:X)	100.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.450
Safety Factor	2.0	Width (m)	16.660	Inf Depth (m)	
Porosity	0.30	Length (m)	6.000		

Node SW24 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.620	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.450
Safety Factor	2.0	Width (m)	16.000	Inf Depth (m)	
Porosity	0.30	Length (m)	16.875		

Node SW31 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.610	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.450
Safety Factor	2.0	Width (m)	16.000	Inf Depth (m)	
Porosity	0.30	Length (m)	20.310		

Node SW38 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.650	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	65	Depth (m)	0.450
Safety Factor	2.0	Width (m)	11.000	Inf Depth (m)	
Porosity	0.30	Length (m)	22.730		

Node SW39 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	73.190	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	
Safety Factor	2.0	Width (m)	11.000	Inf Depth (m)	
Porosity	0.30	Length (m)	16.360		

Node SW41 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.080	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	116	Depth (m)	0.450
Safety Factor	2.0	Width (m)	11.000	Inf Depth (m)	
Porosity	0.30	Length (m)	72.100		

Node SW43 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.170	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	90	Depth (m)	0.450
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	24.000		

Node SW63 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	78.550	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	37	Depth (m)	0.700
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	25.000		

Node SW64 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	78.170	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	138	Depth (m)	0.700
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	22.500		

Node SW65 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	78.300	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	158	Depth (m)	0.700
Safety Factor	2.0	Width (m)	10.000	Inf Depth (m)	
Porosity	0.30	Length (m)	50.000		

Node SW66 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	77.900	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	256	Depth (m)	0.700
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	25.000		

Node SW67 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	77.400	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	416	Depth (m)	0.700
Safety Factor	2.0	Width (m)	10.000	Inf Depth (m)	
Porosity	0.30	Length (m)	53.786		

Node SW49 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	73.200	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	64	Depth (m)	0.450
Safety Factor	2.0	Width (m)	11.000	Inf Depth (m)	
Porosity	0.30	Length (m)	22.720		

Node SW51 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	73.170	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	138	Depth (m)	0.450
Safety Factor	2.0	Width (m)	11.000	Inf Depth (m)	
Porosity	0.30	Length (m)	44.540		

Node SW52 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.880	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	105	Depth (m)	0.450
Safety Factor	2.0	Width (m)	6.500	Inf Depth (m)	
Porosity	0.30	Length (m)	18.460		

Node RG01 Lined Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.300	Pit Length (m)	9.700
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	6	Depth (m)	0.900
Safety Factor	2.0	Ring Diameter (m)	0.450	Inf Depth (m)	
Porosity	0.35	Pit Width (m)	1.400	Number Required	1

Node RG02 Lined Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.350	Pit Length (m)	19.770
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	7	Depth (m)	0.900
Safety Factor	2.0	Ring Diameter (m)	0.450	Inf Depth (m)	
Porosity	0.35	Pit Width (m)	1.200	Number Required	1

Node RG04 Lined Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.000	Pit Length (m)	17.600
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	16	Depth (m)	0.900
Safety Factor	2.0	Ring Diameter (m)	0.450	Inf Depth (m)	
Porosity	0.35	Pit Width (m)	3.130	Number Required	1

Node RG05 Lined Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	71.300	Pit Length (m)	23.410
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	20	Depth (m)	0.900
Safety Factor	2.0	Ring Diameter (m)	0.450	Inf Depth (m)	
Porosity	0.35	Pit Width (m)	2.840	Number Required	1

Node RG03 Lined Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	72.100	Pit Length (m)	6.240
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	76	Depth (m)	0.900
Safety Factor	2.0	Ring Diameter (m)	0.450	Inf Depth (m)	
Porosity	0.35	Pit Width (m)	5.000	Number Required	1

Node SW62/ FC Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	75.090	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.450
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	19.500		

Node SW61 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	74.900	Slope (1:X)	150.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.450
Safety Factor	2.0	Width (m)	5.000	Inf Depth (m)	
Porosity	0.30	Length (m)	20.000		

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	10	71.829	0.089	15.5	0.1278	0.0000	OK
15 minute summer	SW02	11	71.704	0.134	30.5	0.1919	0.0000	OK
15 minute summer	SW03	11	71.596	0.136	30.2	0.1952	0.0000	OK
720 minute winter	Tank U2	615	71.128	0.228	5.1	69.6117	0.0000	OK
15 minute summer	U2 Dock	10	71.585	0.035	2.1	0.0071	0.0000	OK
15 minute summer	SW04	11	71.165	0.085	17.2	0.0959	0.0000	OK
720 minute winter	SW05	615	71.128	0.258	2.2	0.3691	0.0000	OK
720 minute winter	SW06/ FC	615	71.128	0.278	1.1	0.3977	0.0000	OK
600 minute winter	SW07	585	70.551	0.351	1.2	0.8943	0.0000	OK
15 minute summer	SW08	13	72.863	0.403	2.1	0.4555	0.0000	SURCHARGED
15 minute summer	SW09	13	72.837	0.587	6.2	0.8437	0.0000	SURCHARGED
600 minute winter	SW10	585	70.551	0.381	2.2	0.9706	0.0000	OK
15 minute summer	SW11	11	71.955	0.145	35.0	0.2563	0.0000	OK
15 minute summer	SW12	11	71.719	0.189	67.4	0.3341	0.0000	OK
15 minute summer	SW13	11	71.570	0.150	67.5	0.2648	0.0000	OK
15 minute summer	U1 Dock	10	71.702	0.052	5.0	0.0106	0.0000	OK
15 minute summer	SW14	10	71.529	0.109	19.2	0.1553	0.0000	OK
15 minute summer	SW15	10	71.488	0.108	19.0	0.1548	0.0000	OK
15 minute summer	SW16	11	71.449	0.099	23.7	0.1415	0.0000	OK
15 minute summer	SW17	11	71.245	0.075	23.8	0.1079	0.0000	OK
600 minute winter	Tank U1	570	70.729	0.229	13.7	137.1811	0.0000	SURCHARGED
600 minute winter	SW18/ FC	570	70.729	0.259	2.6	0.4577	0.0000	SURCHARGED
15 minute summer	RG01	10	72.083	0.083	3.9	0.0131	0.0000	OK
600 minute winter	SW19	585	70.551	0.521	4.6	1.3269	0.0000	OK
15 minute summer	SW20	10	71.805	0.055	4.7	0.0618	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW01	1.000	SW02	15.1	0.555	0.128	1.3438	
15 minute summer	SW02	1.001	SW03	30.2	0.846	0.258	1.1394	
15 minute summer	SW03	1.002	Tank U2	29.7	0.881	0.255	0.4931	
15 minute summer	Tank U2	1.003	SW05	-22.3	-0.898	-0.204	0.3161	
15 minute summer	U2 Dock	2.000	SW04	2.0	0.666	0.115	0.0678	
15 minute summer	SW04	2.001	SW05	17.1	1.031	0.161	0.3154	
15 minute summer	SW05	1.004	SW06/ FC	3.0	0.448	0.027	0.4098	
720 minute winter	SW06/ FC	Hydro-Brake®	SW07	1.1				
15 minute summer	SW07	1.006	SW10	2.9	0.308	0.004	0.1047	
15 minute winter	SW08	Orifice	SW09	1.4				
15 minute summer	SW09	Orifice	SW10	3.9				
15 minute summer	SW10	1.007	SW19	7.5	0.489	0.008	0.8216	
15 minute summer	SW11	4.000	SW12	34.0	0.849	0.216	2.1813	
15 minute summer	SW12	4.001	SW13	67.5	1.046	0.218	3.4996	
15 minute summer	SW13	4.002	Tank U1	66.3	1.244	0.131	2.1680	
15 minute summer	U1 Dock	5.000	SW16	4.9	0.722	0.112	0.1345	
15 minute summer	SW14	6.000	SW15	19.0	0.723	0.153	0.2700	
15 minute summer	SW15	6.001	SW16	18.8	0.761	0.158	0.2066	
15 minute summer	SW16	5.001	SW17	23.8	1.229	0.140	0.4823	
15 minute summer	SW17	5.002	Tank U1	24.0	1.600	0.078	0.1665	
480 minute summer	Tank U1	4.003	SW18/ FC	2.6	0.224	0.076	0.2696	
480 minute summer	SW18/ FC	Hydro-Brake®	SW19	2.6				
15 minute summer	RG01	Orifice	SW19	3.9				
15 minute summer	SW19	1.008	SW26	11.5	0.572	0.016	0.9001	
15 minute summer	SW20	8.000	SW21	4.6	0.466	0.131	0.2809	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW21	11	71.700	0.080	9.3	0.0901	0.0000	OK
15 minute summer	SW22	11	71.592	0.082	9.2	0.0926	0.0000	OK
15 minute summer	SW23	10	71.678	0.048	3.2	0.0546	0.0000	OK
15 minute summer	SW24	10	71.541	0.061	5.7	0.0693	0.0000	OK
480 minute summer	Tank U3a	392	70.942	0.142	3.9	19.6386	0.0000	OK
480 minute summer	SW25/ FC	392	70.942	0.192	0.5	0.2753	0.0000	OK
600 minute winter	SW26	585	70.551	0.561	4.5	1.4287	0.0000	OK
15 minute summer	SW27	10	71.805	0.055	4.7	0.0620	0.0000	OK
15 minute summer	SW28	11	71.700	0.080	9.3	0.0901	0.0000	OK
15 minute summer	SW29	11	71.591	0.081	9.2	0.0913	0.0000	OK
15 minute summer	SW30	10	71.678	0.048	3.2	0.0541	0.0000	OK
15 minute summer	SW31	10	71.536	0.066	6.3	0.0747	0.0000	OK
600 minute winter	Tank U3b	480	70.950	0.150	2.4	20.6872	0.0000	OK
600 minute winter	SW32/ FC	480	70.950	0.190	0.5	0.2718	0.0000	OK
15 minute summer	RG03	10	71.887	0.077	2.4	0.0123	0.0000	OK
15 minute summer	RG02	10	72.134	0.084	3.3	0.0134	0.0000	OK
600 minute winter	SW33	585	70.551	0.601	5.4	1.5305	0.0000	OK
600 minute winter	SW34	585	70.551	0.651	4.9	1.6577	0.0000	OK
15 minute summer	SW38	13	72.212	0.162	2.4	0.1829	0.0000	SURCHARGED
15 minute summer	SW39	10	72.609	0.019	1.7	0.0219	0.0000	OK
15 minute summer	SW40	13	72.214	0.264	3.8	0.2987	0.0000	SURCHARGED
15 minute summer	SW41	13	72.097	0.617	6.1	0.7645	0.0000	SURCHARGED
15 minute summer	SW42	10	71.137	0.072	7.7	0.0819	0.0000	OK
15 minute summer	SW43	11	71.033	0.093	12.5	0.1057	0.0000	OK
15 minute summer	SW35	11	70.953	0.083	10.6	0.0938	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW21	8.001	SW22	9.2	0.723	0.257	0.2944	
15 minute summer	SW22	8.002	Tank U3a	9.2	0.738	0.251	0.0999	
15 minute summer	SW23	9.000	SW24	3.1	0.660	0.207	0.0455	
15 minute summer	SW24	9.001	Tank U3a	5.6	0.674	0.148	0.0770	
15 minute summer	Tank U3a	8.003	SW25/ FC	1.6	0.362	0.044	0.1127	
480 minute summer	SW25/ FC	Hydro-Brake®	SW26	0.5				
15 minute summer	SW26	1.009	SW33	9.5	0.417	0.014	1.3219	
15 minute summer	SW27	10.000	SW28	4.6	0.465	0.132	0.2858	
15 minute summer	SW28	10.001	SW29	9.2	0.729	0.257	0.2915	
15 minute summer	SW29	10.002	Tank U3b	9.2	0.753	0.243	0.0920	
15 minute summer	SW30	11.000	SW31	3.1	0.667	0.204	0.0502	
15 minute summer	SW31	11.001	Tank U3b	6.2	0.667	0.171	0.0956	
15 minute summer	Tank U3b	10.003	SW32/ FC	1.6	0.345	0.049	0.1039	
600 minute winter	SW32/ FC	Hydro-Brake®	SW33	0.5				
15 minute summer	RG03	Orifice	SW33	2.3				
15 minute summer	RG02	Orifice	SW33	3.2				
15 minute summer	SW33	1.010	SW34	9.9	0.399	0.017	2.9667	
240 minute summer	SW34	Orifice	SW45	5.0				
15 minute summer	SW38	14.000	SW40	2.2	0.357	0.144	0.2410	
15 minute summer	SW39	15.000	SW40	1.7	0.580	0.035	0.0835	
15 minute summer	SW40	Orifice	SW41	2.2				
15 minute summer	SW41	Orifice	SW43	4.0				
15 minute summer	SW42	16.000	SW43	7.6	0.725	0.200	0.0877	
15 minute summer	SW43	14.003	Tank U4	12.6	0.719	0.197	0.2602	
15 minute summer	SW35	17.000	SW36	10.3	0.690	0.161	0.5354	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW36	11	70.788	0.118	20.6	0.1334	0.0000	OK
15 minute summer	SW37	11	70.737	0.117	20.6	0.1318	0.0000	OK
1440 minute winter	Tank U4	1410	70.201	0.301	2.9	75.4255	0.0000	SURCHARGED
1440 minute winter	SW44/ FC	1410	70.201	0.381	1.0	0.6727	0.0000	SURCHARGED
15 minute summer	RG04	11	71.885	0.155	5.8	0.0246	0.0000	SURCHARGED
960 minute winter	SW45	930	70.175	0.765	5.4	1.9470	0.0000	SURCHARGED
960 minute winter	SW46	930	70.176	0.816	5.6	2.0761	0.0000	SURCHARGED
960 minute winter	SW47	930	70.175	0.865	6.4	2.2015	0.0000	SURCHARGED
15 minute summer	RG05	10	70.194	0.124	5.8	0.0197	0.0000	OK
120 minute summer	SW48	78	69.381	0.131	8.5	0.3327	0.0000	OK
15 minute summer	SW63	13	78.185	0.365	2.8	0.4133	0.0000	SURCHARGED
15 minute summer	SW64	13	78.113	0.513	4.4	0.5806	0.0000	SURCHARGED
15 minute summer	SW65	14	78.364	0.744	9.2	1.7555	0.0000	SURCHARGED
15 minute summer	SW66	12	77.914	0.594	9.7	0.6965	0.0000	SURCHARGED
180 minute summer	SW67	120	77.569	0.649	11.5	7.1934	0.0000	SURCHARGED
180 minute summer	SW68	120	77.568	1.008	6.6	1.1398	0.0000	SURCHARGED
15 minute summer	EXTGSW01	11	75.891	0.121	7.5	0.1372	0.0000	OK
15 minute summer	SW53	10	74.558	0.088	11.6	0.0993	0.0000	OK
15 minute summer	SW54	11	74.495	0.095	13.9	0.1078	0.0000	OK
15 minute summer	SW55	11	74.434	0.094	13.8	0.1061	0.0000	OK
15 minute summer	SW56	11	74.354	0.084	13.8	0.0944	0.0000	OK
15 minute summer	SW57	11	74.151	0.101	29.3	0.1791	0.0000	OK
15 minute summer	U5 Dock	10	73.794	0.044	3.4	0.0090	0.0000	OK
15 minute summer	SW58	10	73.467	0.107	17.2	0.1212	0.0000	OK
15 minute summer	SW59	10	73.315	0.295	46.1	0.5208	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW36	17.001	SW37	20.6	0.701	0.194	0.5183	
15 minute summer	SW37	17.002	Tank U4	20.6	0.773	0.190	0.1796	
30 minute summer	Tank U4	14.004	SW44/ FC	2.9	0.383	0.202	0.1605	
1440 minute winter	SW44/ FC	Hydro-Brake®	SW45	1.1				
15 minute summer	RG04	Orifice	SW45	5.6				
15 minute summer	SW45	1.012	SW46	8.8	0.499	0.014	5.2497	
15 minute summer	SW46	1.013	SW47	6.7	0.385	0.012	6.5325	
960 minute winter	SW47	Orifice	SW48	4.8				
15 minute summer	RG05	Orifice	SW48	5.7				
15 minute summer	SW48	1.015	EXTGSW05	11.9	0.610	0.017	2.6942	
15 minute summer	SW63	Orifice	SW64	1.8				
15 minute summer	SW64	Orifice	SW66	2.9				
15 minute summer	SW65	Orifice	SW66	3.9				
15 minute summer	SW66	Orifice	SW67	8.8				
15 minute summer	SW67	20.003	SW68	17.8	0.619	0.216	4.5772	
180 minute summer	SW68	Orifice	EXTGSW01	5.2				
15 minute summer	EXTGSW01	Orifice	EXTGSW02	7.4				
15 minute summer	SW53	22.000	SW54	11.5	0.632	0.176	0.3640	
15 minute summer	SW54	22.001	SW55	13.8	0.725	0.200	0.2948	
15 minute summer	SW55	22.002	SW56	13.8	0.796	0.202	0.3176	
15 minute summer	SW56	22.003	SW57	13.7	0.903	0.150	0.1560	
15 minute summer	SW57	22.004	SW59	29.3	1.137	0.105	0.6874	
15 minute summer	U5 Dock	23.000	SW58	3.3	0.774	0.182	0.0986	
15 minute summer	SW58	23.001	SW59	17.0	0.795	0.240	0.2082	
15 minute summer	SW59	22.005	SW60	54.9	0.787	0.167	1.2094	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	SW60	9	73.304	0.304	51.8	0.5363	0.0000	OK
720 minute winter	Tank U5	585	73.215	0.245	5.9	69.3451	0.0000	OK
15 minute summer	SW61	11	74.082	0.062	1.1	0.0700	0.0000	OK
720 minute winter	SW62/ FC	585	73.215	0.281	1.2	0.4957	0.0000	SURCHARGED
15 minute summer	EXTGSW02	11	72.866	0.206	11.7	0.2945	0.0000	OK
15 minute summer	EXTGSW03	11	71.748	0.183	14.0	0.2621	0.0000	OK
15 minute summer	SW51	13	73.142	0.552	4.7	0.6247	0.0000	SURCHARGED
15 minute summer	SW49	14	72.907	0.307	2.4	0.3474	0.0000	SURCHARGED
15 minute summer	SW50	14	72.884	0.384	1.8	0.4344	0.0000	SURCHARGED
15 minute summer	SW52	14	72.884	0.444	4.0	0.5046	0.0000	SURCHARGED
15 minute summer	EXTGSW04	12	71.112	0.248	19.7	0.3551	0.0000	OK
120 minute summer	EXTGSW05	76	69.387	0.637	25.4	1.6210	0.0000	SURCHARGED
15 minute summer	EXTGSW06	1	68.555	0.000	18.2	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW60	22.006	Tank U5	76.6	1.824	0.232	0.9175	
720 minute winter	Tank U5	22.007	SW62/ FC	1.2	0.083	0.004	2.1440	
15 minute summer	SW61	Orifice	SW62/ FC	1.0				
720 minute winter	SW62/ FC	Hydro-Brake®	EXTGSW02	1.2				
15 minute summer	EXTGSW02	Orifice	EXTGSW03	11.5				
15 minute summer	EXTGSW03	Orifice	EXTGSW04	13.8				
15 minute summer	SW51	Orifice	SW52	2.9				
15 minute summer	SW49	Orifice	SW50	1.5				
15 minute winter	SW50	26.001	SW52	1.3	0.116	0.085	0.1112	
15 minute summer	SW52	Orifice	EXTGSW04	3.3				
15 minute summer	EXTGSW04	Orifice	EXTGSW05	19.6				
15 minute summer	EXTGSW05	Head/Flow	EXTGSW06	18.2				146.3

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	11	72.190	0.450	80.3	0.6436	0.0000	SURCHARGED
15 minute summer	SW02	11	72.104	0.534	154.5	0.7636	0.0000	SURCHARGED
15 minute summer	SW03	11	71.861	0.401	155.4	0.5740	0.0000	SURCHARGED
720 minute winter	Tank U2	705	71.709	0.809	16.2	247.1136	0.0000	SURCHARGED
720 minute winter	U2 Dock	705	71.709	0.159	0.8	0.0323	0.0000	SURCHARGED
720 minute winter	SW04	705	71.709	0.629	6.3	0.7108	0.0000	SURCHARGED
720 minute winter	SW05	705	71.707	0.837	6.2	1.1980	0.0000	SURCHARGED
720 minute winter	SW06/ FC	705	71.708	0.858	3.8	1.2273	0.0000	SURCHARGED
240 minute summer	SW07	156	71.519	1.319	4.2	3.3563	0.0000	SURCHARGED
30 minute summer	SW08	26	73.154	0.694	7.2	2.6397	0.0000	SURCHARGED
60 minute winter	SW09	48	73.101	0.851	16.8	12.6934	0.0000	FLOOD RISK
240 minute summer	SW10	156	71.516	1.346	8.4	3.4268	0.0000	SURCHARGED
15 minute summer	SW11	10	72.234	0.424	181.5	0.7491	0.0000	OK
15 minute summer	SW12	11	72.047	0.517	358.1	0.9140	0.0000	OK
15 minute summer	SW13	11	71.819	0.399	353.0	0.7042	0.0000	OK
15 minute summer	U1 Dock	10	71.782	0.132	26.1	0.0268	0.0000	OK
15 minute summer	SW14	10	71.728	0.308	99.3	0.4412	0.0000	OK
15 minute summer	SW15	10	71.670	0.290	98.9	0.4150	0.0000	OK
15 minute summer	SW16	10	71.602	0.252	123.9	0.3609	0.0000	OK
720 minute winter	SW17	720	71.400	0.230	11.5	0.3297	0.0000	OK
720 minute winter	Tank U1	720	71.400	0.900	36.1	538.7800	0.0000	SURCHARGED
720 minute winter	SW18/ FC	720	71.400	0.930	2.6	1.6435	0.0000	SURCHARGED
15 minute summer	RG01	12	72.475	0.475	20.1	0.9270	0.0000	SURCHARGED
240 minute summer	SW19	156	71.518	1.488	9.9	3.7869	0.0000	SURCHARGED
15 minute summer	SW20	11	72.068	0.318	24.6	0.3593	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW01	1.000	SW02	77.9	0.770	0.661	5.3548	
15 minute summer	SW02	1.001	SW03	155.4	1.409	1.328	3.5136	
15 minute summer	SW03	1.002	Tank U2	155.7	1.465	1.335	1.4708	
15 minute summer	Tank U2	1.003	SW05	-88.5	-1.519	-0.808	1.0580	
15 minute summer	U2 Dock	2.000	SW04	10.8	1.031	0.610	0.2321	
15 minute summer	SW04	2.001	SW05	88.9	1.585	0.838	0.7982	
15 minute summer	SW05	1.004	SW06/ FC	7.4	0.620	0.065	0.6842	
240 minute summer	SW06/ FC	Hydro-Brake®	SW07	1.5				
120 minute winter	SW07	1.006	SW10	12.3	0.251	0.019	4.8695	
15 minute summer	SW08	Orifice	SW09	2.2				
60 minute winter	SW09	Orifice	SW10	4.7				
15 minute summer	SW10	1.007	SW19	20.1	0.521	0.022	9.3860	
15 minute summer	SW11	4.000	SW12	176.6	1.242	1.125	7.9699	
15 minute summer	SW12	4.001	SW13	353.0	1.543	1.137	12.2164	
15 minute summer	SW13	4.002	Tank U1	354.5	1.892	0.702	7.6249	
15 minute summer	U1 Dock	5.000	SW16	25.8	1.111	0.590	0.4589	
15 minute summer	SW14	6.000	SW15	98.9	1.049	0.794	0.9657	
15 minute summer	SW15	6.001	SW16	98.2	1.150	0.823	0.7120	
15 minute summer	SW16	5.001	SW17	122.9	1.808	0.722	1.6837	
15 minute summer	SW17	5.002	Tank U1	123.4	2.391	0.402	0.5733	
15 minute summer	Tank U1	4.003	SW18/ FC	5.8	0.471	0.169	0.2698	
15 minute summer	SW18/ FC	Hydro-Brake®	SW19	3.0				
15 minute summer	RG01	Orifice	SW19	16.4				
15 minute summer	SW19	1.008	SW26	22.6	0.598	0.032	5.1396	
15 minute summer	SW20	8.000	SW21	23.6	0.652	0.670	1.1213	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW21	11	71.998	0.378	47.1	0.4276	0.0000	SURCHARGED
15 minute summer	SW22	11	71.764	0.254	47.1	0.2878	0.0000	SURCHARGED
15 minute summer	SW23	10	71.786	0.156	16.6	0.1760	0.0000	SURCHARGED
15 minute summer	SW24	10	71.643	0.163	29.6	0.1843	0.0000	OK
600 minute winter	Tank U3a	600	71.394	0.594	6.4	81.8687	0.0000	SURCHARGED
600 minute winter	SW25/ FC	600	71.394	0.644	0.7	0.9209	0.0000	SURCHARGED
240 minute summer	SW26	156	71.518	1.528	10.4	3.8887	0.0000	SURCHARGED
15 minute summer	SW27	11	72.064	0.314	24.6	0.3553	0.0000	SURCHARGED
15 minute summer	SW28	11	71.994	0.374	47.0	0.4228	0.0000	SURCHARGED
15 minute summer	SW29	11	71.761	0.251	47.0	0.2835	0.0000	SURCHARGED
15 minute summer	SW30	11	71.782	0.152	16.6	0.1720	0.0000	SURCHARGED
15 minute summer	SW31	10	71.649	0.179	32.6	0.2025	0.0000	OK
600 minute summer	Tank U3b	615	71.417	0.617	10.1	85.0758	0.0000	SURCHARGED
600 minute summer	SW32/ FC	615	71.417	0.657	0.7	0.9399	0.0000	SURCHARGED
15 minute summer	RG03	13	72.216	0.406	12.5	1.3512	0.0000	SURCHARGED
15 minute summer	RG02	12	72.521	0.471	17.1	1.5125	0.0000	SURCHARGED
240 minute summer	SW33	156	71.518	1.568	11.1	3.9911	0.0000	SURCHARGED
240 minute summer	SW34	156	71.519	1.619	8.4	4.1191	0.0000	SURCHARGED
30 minute summer	SW38	25	72.789	0.739	14.8	5.6374	0.0000	SURCHARGED
30 minute summer	SW39	24	72.788	0.198	8.1	0.2236	0.0000	SURCHARGED
30 minute summer	SW40	25	72.787	0.837	7.8	0.9463	0.0000	SURCHARGED
60 minute winter	SW41	60	72.292	0.812	14.0	11.3176	0.0000	FLOOD RISK
15 minute summer	SW42	10	71.274	0.209	40.1	0.2365	0.0000	OK
15 minute summer	SW43	10	71.147	0.207	50.1	0.2338	0.0000	OK
15 minute summer	SW35	10	71.101	0.231	55.2	0.2607	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW21	8.001	SW22	47.1	1.184	1.315	0.9147	
15 minute summer	SW22	8.002	Tank U3a	47.0	1.203	1.287	0.2973	
15 minute summer	SW23	9.000	SW24	16.1	0.959	1.066	0.1553	
15 minute summer	SW24	9.001	Tank U3a	29.3	1.021	0.766	0.2632	
15 minute winter	Tank U3a	8.003	SW25/ FC	5.7	0.440	0.158	0.4096	
60 minute summer	SW25/ FC	Hydro-Brake®	SW26	0.7				
15 minute summer	SW26	1.009	SW33	19.9	0.452	0.029	5.7852	
15 minute summer	SW27	10.000	SW28	23.5	0.651	0.675	1.1380	
15 minute summer	SW28	10.001	SW29	47.0	1.182	1.314	0.9147	
15 minute summer	SW29	10.002	Tank U3b	46.9	1.202	1.246	0.2797	
15 minute summer	SW30	11.000	SW31	16.0	0.963	1.048	0.1734	
15 minute summer	SW31	11.001	Tank U3b	32.3	1.038	0.894	0.3180	
15 minute winter	Tank U3b	10.003	SW32/ FC	5.2	0.421	0.162	0.4105	
60 minute summer	SW32/ FC	Hydro-Brake®	SW33	0.7				
15 minute summer	RG03	Orifice	SW33	7.1				
15 minute summer	RG02	Orifice	SW33	11.0				
15 minute winter	SW33	1.010	SW34	18.1	0.469	0.031	9.9517	
60 minute summer	SW34	Orifice	SW45	6.2				
15 minute summer	SW38	14.000	SW40	-4.1	0.471	-0.274	0.2410	
15 minute summer	SW39	15.000	SW40	8.5	0.913	0.176	0.1552	
15 minute winter	SW40	Orifice	SW41	3.8				
60 minute winter	SW41	Orifice	SW43	4.6				
15 minute summer	SW42	16.000	SW43	39.7	1.120	1.044	0.2920	
15 minute summer	SW43	14.003	Tank U4	49.6	1.058	0.778	0.6983	
15 minute summer	SW35	17.000	SW36	54.0	0.903	0.843	2.1679	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW36	11	71.002	0.332	109.1	0.3753	0.0000	OK
15 minute summer	SW37	11	70.917	0.297	107.3	0.3354	0.0000	OK
1440 minute winter	Tank U4	1410	70.842	0.942	8.1	236.1564	0.0000	SURCHARGED
1440 minute winter	SW44/ FC	1410	70.841	1.021	0.9	1.8046	0.0000	SURCHARGED
15 minute summer	RG04	13	72.279	0.549	30.1	5.5013	0.0000	SURCHARGED
360 minute summer	SW45	216	71.017	1.607	10.0	4.0902	0.0000	SURCHARGED
360 minute summer	SW46	216	71.017	1.657	7.8	4.2175	0.0000	SURCHARGED
360 minute summer	SW47	216	71.017	1.707	7.8	4.3447	0.0000	SURCHARGED
30 minute summer	RG05	25	71.349	1.279	27.0	1.3550	0.0000	SURCHARGED
30 minute summer	SW48	24	71.302	2.052	45.5	5.2221	0.0000	SURCHARGED
30 minute summer	SW63	24	78.724	0.904	13.0	4.4125	0.0000	SURCHARGED
60 minute winter	SW64	60	78.454	0.854	9.7	8.0186	0.0000	SURCHARGED
60 minute winter	SW65	59	78.606	0.986	22.8	22.1566	0.0000	SURCHARGED
120 minute winter	SW66	114	78.226	0.906	12.3	10.1413	0.0000	SURCHARGED
240 minute winter	SW67	240	77.922	1.002	16.5	56.3601	0.0000	SURCHARGED
240 minute winter	SW68	240	77.919	1.359	6.0	1.5376	0.0000	SURCHARGED
15 minute summer	EXTGSW01	11	76.586	0.816	27.0	0.9231	0.0000	SURCHARGED
15 minute summer	SW53	11	74.753	0.283	60.2	0.3197	0.0000	OK
15 minute summer	SW54	11	74.691	0.291	71.4	0.3290	0.0000	OK
15 minute summer	SW55	11	74.607	0.267	70.3	0.3018	0.0000	OK
15 minute summer	SW56	11	74.492	0.222	70.6	0.2509	0.0000	OK
15 minute summer	SW57	11	74.306	0.256	151.8	0.4528	0.0000	OK
15 minute summer	U5 Dock	11	73.878	0.128	17.6	0.0259	0.0000	OK
480 minute winter	SW58	472	73.806	0.446	8.9	0.5047	0.0000	SURCHARGED
480 minute winter	SW59	480	73.804	0.784	24.5	1.3853	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW36	17.001	SW37	107.3	1.090	1.013	1.7344	
15 minute summer	SW37	17.002	Tank U4	107.8	1.273	0.993	0.5663	
15 minute summer	Tank U4	14.004	SW44/ FC	6.5	0.542	0.451	0.2096	
30 minute summer	SW44/ FC	Hydro-Brake®	SW45	1.3				
15 minute summer	RG04	Orifice	SW45	12.0				
15 minute winter	SW45	1.012	SW46	17.4	0.546	0.029	9.0418	
15 minute winter	SW46	1.013	SW47	9.4	0.467	0.016	9.8429	
360 minute summer	SW47	Orifice	SW48	6.4				
15 minute summer	RG05	Orifice	SW48	23.0				
15 minute summer	SW48	1.015	EXTGSW05	39.3	0.587	0.055	16.1172	
15 minute summer	SW63	Orifice	SW64	3.1				
15 minute winter	SW64	Orifice	SW66	3.2				
15 minute summer	SW65	Orifice	SW66	3.9				
15 minute winter	SW66	Orifice	SW67	9.1				
15 minute winter	SW67	20.003	SW68	25.9	0.834	0.314	4.5772	
240 minute winter	SW68	Orifice	EXTGSW01	6.0				
15 minute summer	EXTGSW01	Orifice	EXTGSW02	26.1				
15 minute summer	SW53	22.000	SW54	58.9	0.869	0.901	1.3880	
15 minute summer	SW54	22.001	SW55	70.3	1.039	1.022	1.0541	
15 minute summer	SW55	22.002	SW56	70.6	1.148	1.030	1.1139	
15 minute summer	SW56	22.003	SW57	70.7	1.354	0.771	0.5339	
15 minute summer	SW57	22.004	SW59	152.3	1.736	0.544	2.3350	
15 minute summer	U5 Dock	23.000	SW58	17.4	1.061	0.960	0.3885	
15 minute summer	SW58	23.001	SW59	88.9	1.319	1.254	0.6277	
15 minute summer	SW59	22.005	SW60	240.8	1.370	0.734	1.8073	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SW60	705	73.804	0.804	17.0	1.4206	0.0000	SURCHARGED
600 minute winter	Tank U5	585	73.804	0.834	19.3	236.5758	0.0000	SURCHARGED
15 minute summer	SW61	12	74.613	0.593	5.5	0.6708	0.0000	SURCHARGED
600 minute winter	SW62/ FC	585	73.804	0.870	2.0	1.5378	0.0000	SURCHARGED
15 minute summer	EXTGSW02	12	74.795	2.135	45.2	3.0553	0.0000	SURCHARGED
15 minute summer	EXTGSW03	13	73.504	1.939	46.6	2.7747	0.0000	SURCHARGED
60 minute summer	SW51	47	73.354	0.764	16.3	9.2777	0.0000	FLOOD RISK
30 minute summer	SW49	24	73.308	0.708	11.2	3.6883	0.0000	SURCHARGED
120 minute summer	SW50	106	73.119	0.619	2.6	0.7001	0.0000	SURCHARGED
120 minute summer	SW52	106	73.118	0.678	7.8	7.1362	0.0000	SURCHARGED
15 minute summer	EXTGSW04	12	72.443	1.579	59.5	2.2592	0.0000	SURCHARGED
30 minute summer	EXTGSW05	24	71.307	2.557	87.4	6.5086	0.0000	SURCHARGED
15 minute summer	EXTGSW06	1	68.555	0.000	49.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW60	22.006	Tank U5	247.3	2.515	0.750	2.1829	
15 minute summer	Tank U5	22.007	SW62/ FC	-5.3	-0.206	-0.017	3.4034	
15 minute summer	SW61	Orifice	SW62/ FC	3.9				
600 minute winter	SW62/ FC	Hydro-Brake®	EXTGSW02	2.0				
15 minute summer	EXTGSW02	Orifice	EXTGSW03	34.4				
15 minute summer	EXTGSW03	Orifice	EXTGSW04	42.7				
15 minute winter	SW51	Orifice	SW52	3.4				
15 minute summer	SW49	Orifice	SW50	2.9				
15 minute summer	SW50	26.001	SW52	2.7	0.153	0.171	0.1112	
120 minute summer	SW52	Orifice	EXTGSW04	4.2				
15 minute summer	EXTGSW04	Orifice	EXTGSW05	57.6				
15 minute summer	EXTGSW05	Head/Flow	EXTGSW06	49.3				727.2

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	10	72.647	0.907	108.4	1.2975	0.0000	SURCHARGED
15 minute summer	SW02	10	72.478	0.908	214.6	1.3000	0.0000	SURCHARGED
720 minute summer	SW03	735	72.035	0.575	22.6	0.8225	0.0000	SURCHARGED
720 minute summer	Tank U2	735	72.035	1.135	35.2	346.6183	0.0000	SURCHARGED
720 minute summer	U2 Dock	720	72.033	0.483	1.6	0.0981	0.0000	SURCHARGED
720 minute summer	SW04	720	72.034	0.954	12.7	1.0792	0.0000	SURCHARGED
720 minute summer	SW05	750	72.034	1.164	12.9	1.6662	0.0000	SURCHARGED
720 minute summer	SW06/ FC	720	72.033	1.183	3.3	1.6934	0.0000	SURCHARGED
180 minute summer	SW07	124	72.152	1.952	6.2	4.9680	0.0000	SURCHARGED
60 minute summer	SW08	54	73.190	0.730	7.2	4.4427	0.0000	SURCHARGED
60 minute winter	SW09	50	73.170	0.920	21.8	18.7873	0.0000	FLOOD RISK
180 minute summer	SW10	124	72.152	1.982	12.3	5.0450	0.0000	SURCHARGED
15 minute summer	SW11	10	72.629	0.819	245.1	1.4472	0.0000	SURCHARGED
15 minute summer	SW12	10	72.255	0.725	487.2	1.2810	0.0000	SURCHARGED
15 minute summer	SW13	11	71.935	0.515	482.4	0.9100	0.0000	OK
15 minute summer	U1 Dock	10	71.815	0.165	35.2	0.0335	0.0000	OK
15 minute summer	SW14	10	71.837	0.417	134.1	0.5960	0.0000	SURCHARGED
15 minute summer	SW15	10	71.753	0.373	133.5	0.5342	0.0000	OK
960 minute winter	SW16	945	71.740	0.390	9.3	0.5578	0.0000	SURCHARGED
960 minute winter	SW17	945	71.740	0.570	9.3	0.8153	0.0000	SURCHARGED
960 minute winter	Tank U1	945	71.740	1.240	48.1	741.8369	0.0000	SURCHARGED
960 minute winter	SW18/ FC	945	71.740	1.270	2.8	2.2433	0.0000	SURCHARGED
15 minute summer	RG01	12	72.697	0.697	27.1	2.0388	0.0000	FLOOD RISK
180 minute summer	SW19	124	72.151	2.121	11.9	5.3982	0.0000	SURCHARGED
15 minute summer	SW20	11	72.425	0.675	33.2	0.7629	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW01	1.000	SW02	106.2	0.963	0.902	5.3548	
15 minute summer	SW02	1.001	SW03	212.9	1.931	1.820	3.5136	
15 minute summer	SW03	1.002	Tank U2	212.0	1.925	1.817	1.5546	
15 minute summer	Tank U2	1.003	SW05	-117.4	-1.636	-1.071	1.0911	
15 minute summer	U2 Dock	2.000	SW04	14.9	1.069	0.840	0.3327	
15 minute summer	SW04	2.001	SW05	120.0	1.706	1.132	1.0044	
15 minute summer	SW05	1.004	SW06/ FC	6.1	0.680	0.054	0.6857	
30 minute summer	SW06/ FC	Hydro-Brake®	SW07	1.5				
15 minute summer	SW07	1.006	SW10	18.6	0.539	0.029	4.8695	
15 minute winter	SW08	Orifice	SW09	2.2				
60 minute winter	SW09	Orifice	SW10	4.9				
15 minute summer	SW10	1.007	SW19	23.1	0.536	0.025	10.9766	
15 minute summer	SW11	4.000	SW12	242.1	1.528	1.542	8.6171	
15 minute summer	SW12	4.001	SW13	482.4	1.725	1.554	14.4082	
15 minute summer	SW13	4.002	Tank U1	480.8	1.996	0.952	9.8316	
15 minute summer	U1 Dock	5.000	SW16	34.8	1.158	0.797	0.6019	
15 minute summer	SW14	6.000	SW15	133.5	1.210	1.072	1.1298	
15 minute summer	SW15	6.001	SW16	132.9	1.252	1.114	0.8766	
15 minute summer	SW16	5.001	SW17	166.1	1.909	0.975	2.1380	
15 minute summer	SW17	5.002	Tank U1	166.1	2.544	0.541	0.7242	
15 minute summer	Tank U1	4.003	SW18/ FC	6.6	0.474	0.192	0.2698	
15 minute summer	SW18/ FC	Hydro-Brake®	SW19	3.3				
15 minute summer	RG01	Orifice	SW19	20.2				
15 minute winter	SW19	1.008	SW26	31.3	0.645	0.044	5.3404	
15 minute summer	SW20	8.000	SW21	32.0	0.804	0.910	1.1213	

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW21	11	72.297	0.677	63.9	0.7652	0.0000	SURCHARGED
15 minute summer	SW22	11	71.868	0.358	63.9	0.4045	0.0000	SURCHARGED
15 minute summer	SW23	10	71.881	0.251	22.4	0.2835	0.0000	SURCHARGED
15 minute summer	SW24	10	71.689	0.209	40.2	0.2360	0.0000	OK
720 minute winter	Tank U3a	720	71.662	0.862	7.9	118.8430	0.0000	SURCHARGED
720 minute winter	SW25/ FC	720	71.662	0.912	0.7	1.3045	0.0000	SURCHARGED
180 minute summer	SW26	124	72.149	2.159	10.5	5.4936	0.0000	SURCHARGED
15 minute summer	SW27	11	72.420	0.670	33.2	0.7580	0.0000	SURCHARGED
15 minute summer	SW28	11	72.290	0.670	63.9	0.7583	0.0000	SURCHARGED
15 minute summer	SW29	11	71.861	0.351	63.9	0.3972	0.0000	SURCHARGED
15 minute summer	SW30	11	71.916	0.286	22.4	0.3234	0.0000	SURCHARGED
15 minute summer	SW31	10	71.709	0.239	43.9	0.2707	0.0000	SURCHARGED
720 minute winter	Tank U3b	720	71.685	0.885	8.2	122.1016	0.0000	SURCHARGED
720 minute winter	SW32/ FC	720	71.685	0.925	0.7	1.3239	0.0000	SURCHARGED
15 minute summer	RG03	13	72.321	0.511	16.9	2.5277	0.0000	SURCHARGED
15 minute summer	RG02	13	72.681	0.631	23.0	2.8898	0.0000	FLOOD RISK
180 minute summer	SW33	124	72.148	2.198	12.9	5.5946	0.0000	SURCHARGED
240 minute summer	SW34	156	72.148	2.248	8.7	5.7210	0.0000	SURCHARGED
60 minute summer	SW38	45	72.837	0.787	15.0	9.2455	0.0000	FLOOD RISK
15 minute summer	SW39	11	72.852	0.262	12.2	0.2969	0.0000	SURCHARGED
60 minute summer	SW40	44	72.835	0.885	7.8	1.0007	0.0000	SURCHARGED
120 minute winter	SW41	114	72.338	0.858	12.3	16.4592	0.0000	FLOOD RISK
15 minute summer	SW42	10	71.356	0.291	54.2	0.3294	0.0000	SURCHARGED
1440 minute winter	SW43	1410	71.194	0.254	4.7	0.2876	0.0000	OK
15 minute summer	SW35	10	71.329	0.459	74.5	0.5191	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW21	8.001	SW22	63.9	1.606	1.784	0.9147	
15 minute summer	SW22	8.002	Tank U3a	63.9	1.607	1.749	0.3119	
15 minute summer	SW23	9.000	SW24	21.9	1.245	1.446	0.1637	
15 minute summer	SW24	9.001	Tank U3a	39.7	1.122	1.038	0.3212	
15 minute summer	Tank U3a	8.003	SW25/ FC	5.2	0.432	0.144	0.4096	
30 minute summer	SW25/ FC	Hydro-Brake®	SW26	0.7				
15 minute summer	SW26	1.009	SW33	19.8	0.436	0.029	5.8470	
15 minute summer	SW27	10.000	SW28	32.0	0.804	0.917	1.1380	
15 minute summer	SW28	10.001	SW29	63.9	1.606	1.785	0.9147	
15 minute summer	SW29	10.002	Tank U3b	63.9	1.608	1.697	0.2936	
15 minute summer	SW30	11.000	SW31	21.8	1.238	1.422	0.1885	
15 minute summer	SW31	11.001	Tank U3b	43.4	1.137	1.200	0.3725	
15 minute winter	Tank U3b	10.003	SW32/ FC	4.4	0.425	0.137	0.4105	
30 minute summer	SW32/ FC	Hydro-Brake®	SW33	0.7				
15 minute summer	RG03	Orifice	SW33	8.1				
15 minute summer	RG02	Orifice	SW33	13.0				
15 minute summer	SW33	1.010	SW34	25.2	0.483	0.044	9.9555	
60 minute summer	SW34	Orifice	SW45	6.7				
15 minute summer	SW38	14.000	SW40	-7.1	0.493	-0.468	0.2410	
15 minute summer	SW39	15.000	SW40	11.4	0.873	0.237	0.1552	
15 minute summer	SW40	Orifice	SW41	3.9				
120 minute winter	SW41	Orifice	SW43	4.8				
15 minute summer	SW42	16.000	SW43	53.8	1.363	1.414	0.3158	
15 minute summer	SW43	14.003	Tank U4	65.7	1.154	1.031	0.8421	
15 minute summer	SW35	17.000	SW36	73.7	1.046	1.151	2.5188	

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW36	1410	71.193	0.523	5.8	0.5920	0.0000	SURCHARGED
1440 minute winter	SW37	1440	71.195	0.575	5.8	0.6499	0.0000	SURCHARGED
1440 minute winter	Tank U4	1410	71.194	1.294	11.2	324.6287	0.0000	SURCHARGED
1440 minute winter	SW44/ FC	1410	71.194	1.374	1.1	2.4276	0.0000	SURCHARGED
30 minute summer	RG04	22	72.452	0.722	36.4	8.8785	0.0000	FLOOD RISK
120 minute summer	SW45	88	71.998	2.588	17.8	6.5871	0.0000	SURCHARGED
120 minute summer	SW46	88	71.998	2.638	12.7	6.7143	0.0000	SURCHARGED
120 minute summer	SW47	88	71.998	2.688	8.0	6.8416	0.0000	SURCHARGED
30 minute summer	RG05	27	71.804	1.734	36.4	12.0782	0.0000	FLOOD RISK
30 minute summer	SW48	23	71.885	2.635	58.7	6.7065	0.0000	FLOOD RISK
30 minute summer	SW63	27	78.785	0.965	17.6	6.7959	0.0000	SURCHARGED
120 minute winter	SW64	114	78.559	0.959	8.4	11.7019	0.0000	FLOOD RISK
60 minute winter	SW65	60	78.684	1.064	30.8	33.7486	0.0000	SURCHARGED
120 minute winter	SW66	116	78.344	1.024	14.3	14.6871	0.0000	FLOOD RISK
240 minute winter	SW67	244	78.045	1.125	19.9	76.3672	0.0000	FLOOD RISK
240 minute winter	SW68	244	78.042	1.482	6.3	1.6766	0.0000	SURCHARGED
15 minute summer	EXTGSW01	12	76.999	1.229	34.3	1.3903	0.0000	FLOOD RISK
15 minute summer	SW53	11	75.057	0.587	81.3	0.6641	0.0000	SURCHARGED
15 minute summer	SW54	11	74.923	0.523	96.6	0.5921	0.0000	SURCHARGED
15 minute summer	SW55	11	74.760	0.420	95.1	0.4749	0.0000	SURCHARGED
15 minute summer	SW56	11	74.578	0.308	95.4	0.3482	0.0000	SURCHARGED
15 minute summer	SW57	10	74.365	0.315	206.9	0.5569	0.0000	OK
15 minute summer	U5 Dock	11	74.231	0.481	23.7	0.0977	0.0000	SURCHARGED
720 minute summer	SW58	660	74.145	0.785	12.7	0.8883	0.0000	SURCHARGED
720 minute summer	SW59	660	74.144	1.124	34.5	1.9855	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW36	17.001	SW37	147.7	1.339	1.395	1.9441	
15 minute summer	SW37	17.002	Tank U4	147.1	1.440	1.355	0.6696	
15 minute winter	Tank U4	14.004	SW44/ FC	6.7	0.573	0.463	0.2096	
30 minute summer	SW44/ FC	Hydro-Brake®	SW45	1.4				
30 minute summer	RG04	Orifice	SW45	13.9				
15 minute winter	SW45	1.012	SW46	19.7	0.547	0.032	9.0418	
15 minute winter	SW46	1.013	SW47	9.4	0.498	0.016	9.8429	
120 minute summer	SW47	Orifice	SW48	7.8				
15 minute summer	RG05	Orifice	SW48	23.3				
15 minute winter	SW48	1.015	EXTGSW05	50.2	0.620	0.071	16.1172	
15 minute summer	SW63	Orifice	SW64	3.1				
15 minute winter	SW64	Orifice	SW66	3.2				
30 minute summer	SW65	Orifice	SW66	3.8				
15 minute summer	SW66	Orifice	SW67	9.2				
15 minute winter	SW67	20.003	SW68	32.2	0.871	0.390	4.5772	
240 minute winter	SW68	Orifice	EXTGSW01	6.3				
15 minute summer	EXTGSW01	Orifice	EXTGSW02	32.3				
15 minute summer	SW53	22.000	SW54	79.7	1.131	1.219	1.4101	
15 minute summer	SW54	22.001	SW55	95.1	1.351	1.383	1.0914	
15 minute summer	SW55	22.002	SW56	95.4	1.355	1.393	1.2852	
15 minute summer	SW56	22.003	SW57	95.6	1.417	1.043	0.6706	
15 minute summer	SW57	22.004	SW59	206.5	1.854	0.737	2.9612	
15 minute summer	U5 Dock	23.000	SW58	23.1	1.311	1.276	0.4074	
15 minute summer	SW58	23.001	SW59	119.1	1.694	1.680	0.6623	
15 minute summer	SW59	22.005	SW60	321.7	1.523	0.981	2.0828	

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	SW60	960	74.150	1.150	20.3	2.0318	0.0000	SURCHARGED
720 minute winter	Tank U5	705	74.132	1.162	22.7	329.5355	0.0000	SURCHARGED
15 minute summer	SW61	12	74.910	0.890	7.5	1.0193	0.0000	SURCHARGED
720 minute winter	SW62/ FC	705	74.132	1.198	2.4	2.1170	0.0000	SURCHARGED
15 minute summer	EXTGSW02	12	76.167	3.507	58.2	5.0186	0.0000	FLOOD RISK
15 minute summer	EXTGSW03	13	74.473	2.908	56.3	4.1614	0.0000	SURCHARGED
60 minute winter	SW51	57	73.403	0.813	15.9	14.3985	0.0000	FLOOD RISK
30 minute summer	SW49	27	73.341	0.741	15.2	5.7321	0.0000	SURCHARGED
120 minute winter	SW50	118	73.176	0.676	2.5	0.7643	0.0000	SURCHARGED
120 minute winter	SW52	118	73.175	0.735	7.5	9.2348	0.0000	SURCHARGED
30 minute summer	EXTGSW04	21	73.188	2.324	67.0	3.3262	0.0000	SURCHARGED
30 minute summer	EXTGSW05	22	71.892	3.142	92.6	7.9955	0.0000	FLOOD RISK
15 minute summer	EXTGSW06	1	68.555	0.000	49.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW60	22.006	Tank U5	318.8	2.636	0.966	3.0848	
60 minute summer	Tank U5	22.007	SW62/ FC	-7.7	0.054	-0.025	5.0947	
15 minute summer	SW61	Orifice	SW62/ FC	4.9				
720 minute winter	SW62/ FC	Hydro-Brake®	EXTGSW02	2.4				
15 minute summer	EXTGSW02	Orifice	EXTGSW03	40.0				
15 minute summer	EXTGSW03	Orifice	EXTGSW04	49.0				
15 minute summer	SW51	Orifice	SW52	3.2				
15 minute winter	SW49	Orifice	SW50	2.9				
15 minute winter	SW50	26.001	SW52	2.6	0.147	0.164	0.1112	
120 minute winter	SW52	Orifice	EXTGSW04	4.4				
15 minute summer	EXTGSW04	Orifice	EXTGSW05	66.0				
15 minute summer	EXTGSW05	Head/Flow	EXTGSW06	49.3				849.5

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	10	73.355	1.615	145.4	2.3117	0.0000	SURCHARGED
15 minute summer	SW02	10	73.060	1.490	286.8	2.1315	0.0000	SURCHARGED
600 minute summer	SW03	585	72.564	1.104	33.1	1.5800	0.0000	SURCHARGED
600 minute summer	Tank U2	585	72.562	1.662	50.9	458.5306	0.0000	SURCHARGED
960 minute summer	U2 Dock	885	72.550	1.000	2.1	0.2030	10.2743	FLOOD
600 minute summer	SW04	585	72.562	1.482	18.5	1.6760	0.0000	SURCHARGED
600 minute summer	SW05	585	72.565	1.695	19.4	2.4252	0.0000	SURCHARGED
600 minute summer	SW06/ FC	585	72.564	1.714	3.0	2.4524	0.0000	SURCHARGED
120 minute summer	SW07	78	72.481	2.281	8.9	5.8051	0.0000	SURCHARGED
60 minute winter	SW08	61	73.262	0.802	7.1	7.9841	0.0000	FLOOD RISK
60 minute winter	SW09	48	73.249	0.999	28.9	27.2945	0.6855	FLOOD
120 minute summer	SW10	78	72.481	2.311	12.9	6.1227	0.0000	SURCHARGED
15 minute summer	SW11	10	73.505	1.695	328.8	2.9942	0.0000	SURCHARGED
15 minute summer	SW12	10	72.831	1.301	653.6	2.2981	0.0000	SURCHARGED
600 minute summer	SW13	540	72.661	1.241	75.8	2.1927	0.0000	SURCHARGED
960 minute winter	U1 Dock	780	72.650	1.000	4.8	0.2030	40.8262	FLOOD
600 minute summer	SW14	540	72.661	1.241	20.7	1.7762	0.0000	SURCHARGED
600 minute summer	SW15	540	72.659	1.279	20.7	1.8308	0.0000	SURCHARGED
600 minute summer	SW16	540	72.661	1.311	26.2	1.8766	0.0000	SURCHARGED
600 minute summer	SW17	540	72.659	1.489	26.0	2.1315	0.0000	SURCHARGED
600 minute summer	Tank U1	540	72.663	2.163	138.2	899.0204	0.0000	SURCHARGED
600 minute summer	SW18/ FC	540	72.661	2.191	4.3	3.8713	0.0000	FLOOD RISK
15 minute summer	RG01	11	72.921	0.921	36.3	3.1644	0.9675	FLOOD
120 minute summer	SW19	78	72.480	2.450	19.8	6.2355	0.0000	SURCHARGED
15 minute summer	SW20	11	73.000	1.250	44.5	1.4136	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW01	1.000	SW02	141.6	1.284	1.202	5.3548	
15 minute summer	SW02	1.001	SW03	283.4	2.570	2.422	3.5136	
15 minute summer	SW03	1.002	Tank U2	283.5	2.571	2.430	1.5901	
15 minute summer	Tank U2	1.003	SW05	-152.3	-1.731	-1.390	1.0911	
15 minute summer	U2 Dock	2.000	SW04	19.0	1.077	1.071	0.3896	
15 minute summer	SW04	2.001	SW05	157.3	2.235	1.484	1.0050	
15 minute winter	SW05	1.004	SW06/ FC	11.3	0.716	0.100	0.6857	
30 minute summer	SW06/ FC	Hydro-Brake®	SW07	1.7				
15 minute winter	SW07	1.006	SW10	18.6	0.569	0.029	4.8695	
15 minute summer	SW08	Orifice	SW09	2.2				
60 minute summer	SW09	Orifice	SW10	5.1				
15 minute winter	SW10	1.007	SW19	-32.4	0.543	-0.035	10.9766	
15 minute summer	SW11	4.000	SW12	324.8	2.050	2.068	8.6171	
15 minute summer	SW12	4.001	SW13	650.8	2.311	2.097	15.0562	
15 minute summer	SW13	4.002	Tank U1	647.3	2.308	1.281	10.9997	
15 minute summer	U1 Dock	5.000	SW16	45.9	1.157	1.052	0.7870	
15 minute summer	SW14	6.000	SW15	177.8	1.612	1.429	1.1304	
15 minute summer	SW15	6.001	SW16	176.1	1.597	1.476	0.9222	
15 minute summer	SW16	5.001	SW17	221.3	2.052	1.300	2.5201	
15 minute summer	SW17	5.002	Tank U1	222.4	2.683	0.725	0.9156	
15 minute summer	Tank U1	4.003	SW18/ FC	6.7	0.513	0.195	0.2698	
600 minute summer	SW18/ FC	Hydro-Brake®	SW19	4.1				
15 minute summer	RG01	Orifice	SW19	23.5				
15 minute summer	SW19	1.008	SW26	37.3	0.631	0.053	5.3404	
15 minute summer	SW20	8.000	SW21	42.3	1.065	1.205	1.1213	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW21	11	72.775	1.155	84.8	1.3058	0.0000	SURCHARGED
1440 minute winter	SW22	1440	72.059	0.549	3.2	0.6205	0.0000	SURCHARGED
15 minute summer	SW23	11	72.113	0.483	30.0	0.5465	0.0000	SURCHARGED
1440 minute winter	SW24	1440	72.059	0.579	2.0	0.6544	0.0000	SURCHARGED
1440 minute winter	Tank U3a	1440	72.059	1.259	5.5	173.6003	0.0000	SURCHARGED
1440 minute winter	SW25/ FC	1440	72.059	1.309	0.6	1.8727	0.0000	SURCHARGED
120 minute summer	SW26	78	72.480	2.489	11.6	6.3358	0.0000	SURCHARGED
15 minute summer	SW27	11	72.992	1.242	44.5	1.4050	0.0000	SURCHARGED
15 minute summer	SW28	11	72.764	1.144	84.9	1.2936	0.0000	SURCHARGED
1440 minute winter	SW29	1440	72.075	0.565	3.2	0.6386	0.0000	SURCHARGED
15 minute summer	SW30	11	72.182	0.552	30.0	0.6238	0.0000	SURCHARGED
1440 minute winter	SW31	1440	72.075	0.605	2.2	0.6838	0.0000	SURCHARGED
1440 minute winter	Tank U3b	1440	72.075	1.275	5.7	175.8058	0.0000	SURCHARGED
1440 minute winter	SW32/ FC	1440	72.074	1.314	0.7	1.8810	0.0000	SURCHARGED
180 minute summer	RG03	116	72.523	0.713	7.4	4.7785	0.0000	FLOOD RISK
15 minute summer	RG02	13	72.913	0.863	30.9	4.8761	0.0000	FLOOD RISK
120 minute summer	SW33	78	72.479	2.529	20.0	6.4355	0.0000	SURCHARGED
120 minute summer	SW34	78	72.477	2.577	12.8	6.5585	6.3191	FLOOD
60 minute summer	SW38	49	72.913	0.863	21.8	14.9772	0.0000	FLOOD RISK
15 minute summer	SW39	11	72.965	0.375	16.4	0.4237	0.0000	SURCHARGED
60 minute summer	SW40	48	72.910	0.960	10.7	1.0857	0.0000	SURCHARGED
120 minute winter	SW41	118	72.396	0.916	15.1	24.1722	0.0000	FLOOD RISK
1440 minute winter	SW42	1380	72.334	1.269	2.7	1.4348	0.0000	FLOOD RISK
1440 minute winter	SW43	1380	72.333	1.393	5.9	4.5892	0.0000	FLOOD RISK
1440 minute winter	SW35	1350	72.336	1.466	3.7	1.6577	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW21	8.001	SW22	84.7	2.130	2.366	0.9147	
15 minute summer	SW22	8.002	Tank U3a	84.6	2.127	2.316	0.3164	
15 minute summer	SW23	9.000	SW24	29.2	1.657	1.926	0.1687	
15 minute summer	SW24	9.001	Tank U3a	52.8	1.339	1.381	0.3466	
15 minute winter	Tank U3a	8.003	SW25/ FC	6.0	0.470	0.168	0.4096	
15 minute winter	SW25/ FC	Hydro-Brake®	SW26	0.8				
15 minute summer	SW26	1.009	SW33	-27.3	0.464	-0.040	5.8470	
15 minute summer	SW27	10.000	SW28	42.4	1.065	1.215	1.1380	
15 minute summer	SW28	10.001	SW29	84.8	2.131	2.368	0.9147	
15 minute summer	SW29	10.002	Tank U3b	84.7	2.129	2.248	0.2977	
15 minute summer	SW30	11.000	SW31	29.2	1.656	1.904	0.1885	
15 minute summer	SW31	11.001	Tank U3b	58.0	1.462	1.604	0.3929	
15 minute winter	Tank U3b	10.003	SW32/ FC	5.8	0.449	0.180	0.4105	
30 minute summer	SW32/ FC	Hydro-Brake®	SW33	0.8				
15 minute summer	RG03	Orifice	SW33	9.2				
15 minute summer	RG02	Orifice	SW33	15.3				
15 minute winter	SW33	1.010	SW34	24.6	0.519	0.043	9.9555	
30 minute summer	SW34	Orifice	SW45	8.1				
15 minute summer	SW38	14.000	SW40	-10.9	-0.621	-0.722	0.2410	
15 minute summer	SW39	15.000	SW40	15.4	0.874	0.319	0.1552	
15 minute summer	SW40	Orifice	SW41	4.0				
120 minute winter	SW41	Orifice	SW43	4.9				
15 minute summer	SW42	16.000	SW43	71.9	1.808	1.888	0.3311	
15 minute summer	SW43	14.003	Tank U4	86.8	1.272	1.360	0.9553	
15 minute summer	SW35	17.000	SW36	98.6	1.400	1.541	2.5188	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	SW36	1350	72.337	1.667	7.4	1.8851	0.0000	SURCHARGED
1440 minute winter	SW37	1380	72.337	1.717	7.2	1.9421	0.0000	SURCHARGED
1440 minute winter	Tank U4	1350	72.333	2.433	13.5	377.6691	0.0000	FLOOD RISK
1440 minute winter	SW44/ FC	1350	72.331	2.511	2.1	4.4367	0.0000	FLOOD RISK
30 minute summer	RG04	20	72.633	0.903	49.1	12.4233	2.0486	FLOOD
120 minute summer	SW45	86	72.413	3.003	18.9	7.6425	0.0000	FLOOD RISK
120 minute summer	SW46	86	72.413	3.053	12.9	7.7698	0.0000	SURCHARGED
120 minute summer	SW47	86	72.413	3.103	8.4	7.8970	0.0000	FLOOD RISK
60 minute winter	RG05	40	71.976	1.906	37.2	16.1149	2.7936	FLOOD
30 minute summer	SW48	19	71.892	2.642	66.2	6.7239	16.0489	FLOOD
60 minute summer	SW63	50	78.888	1.068	17.8	10.7520	0.0000	SURCHARGED
120 minute winter	SW64	116	78.704	1.104	10.1	16.7464	0.0000	FLOOD RISK
120 minute winter	SW65	118	78.799	1.179	25.2	51.2339	0.0000	FLOOD RISK
180 minute winter	SW66	176	78.518	1.198	13.7	21.4251	0.0000	FLOOD RISK
240 minute winter	SW67	172	78.229	1.309	23.9	85.5660	11.6157	FLOOD
240 minute summer	SW68	172	78.243	1.683	7.4	1.9033	0.0000	SURCHARGED
15 minute summer	EXTGSW01	9	77.079	1.309	43.9	1.4805	2.6391	FLOOD
15 minute summer	SW53	11	75.573	1.103	109.0	1.2479	0.0000	SURCHARGED
15 minute summer	SW54	11	75.332	0.932	128.9	1.0536	0.0000	SURCHARGED
15 minute summer	SW55	11	75.036	0.696	127.5	0.7874	0.0000	SURCHARGED
720 minute winter	SW56	705	74.753	0.483	8.9	0.5462	0.0000	SURCHARGED
720 minute winter	SW57	705	74.753	0.703	19.3	1.2425	0.0000	SURCHARGED
720 minute winter	U5 Dock	690	74.750	1.000	2.1	0.2030	2.1047	FLOOD
720 minute winter	SW58	690	74.753	1.393	10.9	1.5756	0.0000	SURCHARGED
720 minute winter	SW59	690	74.754	1.734	30.0	3.0632	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW36	17.001	SW37	197.8	1.793	1.868	1.9453	
15 minute summer	SW37	17.002	Tank U4	197.3	1.798	1.818	0.7092	
15 minute winter	Tank U4	14.004	SW44/ FC	4.9	0.601	0.340	0.2096	
1440 minute winter	SW44/ FC	Hydro-Brake®	SW45	1.8				
15 minute summer	RG04	Orifice	SW45	15.7				
30 minute winter	SW45	1.012	SW46	21.0	0.531	0.035	9.0418	
15 minute winter	SW46	1.013	SW47	10.0	0.531	0.017	9.8429	
120 minute summer	SW47	Orifice	SW48	8.5				
15 minute winter	RG05	Orifice	SW48	23.6				
15 minute winter	SW48	1.015	EXTGSW05	-45.9	0.594	-0.065	16.1172	
15 minute summer	SW63	Orifice	SW64	3.1				
15 minute winter	SW64	Orifice	SW66	3.2				
30 minute summer	SW65	Orifice	SW66	3.8				
15 minute winter	SW66	Orifice	SW67	9.2				
15 minute winter	SW67	20.003	SW68	29.9	0.901	0.363	4.5772	
240 minute summer	SW68	Orifice	EXTGSW01	6.7				
15 minute summer	EXTGSW01	Orifice	EXTGSW02	33.6				
15 minute summer	SW53	22.000	SW54	106.2	1.508	1.625	1.4101	
15 minute summer	SW54	22.001	SW55	127.5	1.811	1.853	1.0914	
15 minute summer	SW55	22.002	SW56	128.0	1.817	1.869	1.2852	
15 minute summer	SW56	22.003	SW57	128.3	1.823	1.399	0.7028	
15 minute summer	SW57	22.004	SW59	276.7	1.938	0.988	3.8175	
15 minute summer	U5 Dock	23.000	SW58	30.6	1.737	1.691	0.4074	
15 minute summer	SW58	23.001	SW59	159.0	2.258	2.242	0.6823	
15 minute summer	SW59	22.005	SW60	431.5	1.709	1.316	2.4537	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute winter	SW60	690	74.751	1.751	29.3	3.0937	0.0000	SURCHARGED
720 minute winter	Tank U5	705	74.750	1.780	29.9	425.9131	0.0000	SURCHARGED
15 minute summer	SW61	13	74.972	0.952	10.0	1.6688	0.0000	SURCHARGED
600 minute winter	SW62/ FC	585	74.748	1.814	4.1	3.2046	0.0000	SURCHARGED
15 minute summer	EXTGSW02	11	76.177	3.517	68.3	5.0328	4.4669	FLOOD
30 minute summer	EXTGSW03	19	74.917	3.352	61.5	4.7967	0.6982	FLOOD
60 minute winter	SW51	60	73.467	0.877	21.7	22.8442	0.0000	FLOOD RISK
60 minute summer	SW49	53	73.389	0.789	15.3	9.3914	0.0000	FLOOD RISK
60 minute summer	SW50	62	73.267	0.767	2.6	0.8675	0.0000	SURCHARGED
60 minute summer	SW52	62	73.266	0.826	15.0	12.6176	0.0000	SURCHARGED
30 minute summer	EXTGSW04	19	73.653	2.789	75.6	3.9911	0.3877	FLOOD
15 minute winter	EXTGSW05	12	71.950	3.200	84.4	8.1435	0.0000	FLOOD RISK
15 minute summer	EXTGSW06	1	68.555	0.000	49.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW60	22.006	Tank U5	427.0	2.734	1.294	3.6398	
60 minute summer	Tank U5	22.007	SW62/ FC	-11.6	-0.097	-0.038	5.0947	
15 minute summer	SW61	Orifice	SW62/ FC	5.0				
600 minute winter	SW62/ FC	Hydro-Brake®	EXTGSW02	2.9				
15 minute summer	EXTGSW02	Orifice	EXTGSW03	40.3				
15 minute summer	EXTGSW03	Orifice	EXTGSW04	50.0				
15 minute winter	SW51	Orifice	SW52	3.4				
15 minute winter	SW49	Orifice	SW50	2.9				
15 minute summer	SW50	26.001	SW52	2.5	0.144	0.161	0.1112	
60 minute summer	SW52	Orifice	EXTGSW04	4.6				
15 minute summer	EXTGSW04	Orifice	EXTGSW05	68.3				
15 minute winter	EXTGSW05	Head/Flow	EXTGSW06	50.4				966.2