Time Area Diagram for Surface Network 5

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.487	4-8	1.408	8-12	0.187

Total Area Contributing (ha) = 2.082

Total Pipe Volume (m³) = 1856.722

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	9.242	0.116	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
1.001	6.570	0.068	96.6	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
1.002	14.620	0.161	90.8	0.016	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
1.003	14.599	0.151	97.0	0.014	0.00	0.0	0.600		o	150	Pipe/Conduit	🔒
1.004	8.866	0.109	81.3	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	🔒
1.005	27.310	0.140	195.1	0.020	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
1.006	18.511	0.220	84.1	0.028	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
1.007	16.872	0.330	51.1	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
1.008	45.812	0.610	75.1	0.026	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
1.009	23.174	0.290	79.9	0.084	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
1.010	15.353	0.280	54.8	0.012	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
1.011	51.987	1.270	40.9	0.014	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
2.000	10.559	0.144	73.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
2.001	16.124	0.620	26.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
3.000	4.246	0.510	8.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
3.001	16.329	0.210	77.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.18	40.054	0.000	0.0	0.0	0.0	0.86	6.8	0.0
1.001	50.00	5.32	39.939	0.000	0.0	0.0	0.0	0.78	6.1	0.0
1.002	50.00	5.62	39.870	0.016	0.0	0.0	0.0	0.81	6.3	2.9
1.003	50.00	5.86	39.660	0.030	0.0	0.0	0.0	1.02	18.0	5.5
1.004	50.00	5.99	39.509	0.030	0.0	0.0	0.0	1.12	19.7	5.5
1.005	50.00	6.46	39.400	0.050	0.0	0.0	0.0	0.97	2916.4	9.1
1.006	50.00	6.67	39.260	0.079	0.0	0.0	0.0	1.48	4440.6	14.2
1.007	50.00	6.82	39.040	0.079	0.0	0.0	0.0	1.89	5696.6	14.2
1.008	50.00	7.31	38.710	0.104	0.0	0.0	0.0	1.56	4700.2	18.9
1.009	50.00	7.56	38.100	0.188	0.0	0.0	0.0	1.51	4556.6	34.0
1.010	50.00	7.70	37.810	0.201	0.0	0.0	0.0	1.83	5500.8	36.2
1.011	50.00	8.11	37.530	0.214	0.0	0.0	0.0	2.12	6366.5	38.7
2.000	50.00	5.20	38.134	0.000	0.0	0.0	0.0	0.90	7.1	0.0
2.001	50.00	5.37	37.990	0.000	0.0	0.0	0.0	1.52	11.9	0.0
3.000	50.00	5.03	38.090	0.000	0.0	0.0	0.0	2.69	21.2	0.0
3.001	50.00	5.34	37.580	0.000	0.0	0.0	0.0	0.87	6.9	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
2.002	18.089	0.934	19.4	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
4.000	11.304	0.141	80.0	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit	
5.000	6.008	0.075	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
4.001	14.028	0.140	100.0	0.007	0.00	0.0	0.600		o	100	Pipe/Conduit	
2.003	8.716	0.051	170.0	0.029	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.012	32.342	1.340	24.1	0.024	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
6.000	11.528	0.590	19.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
6.001	15.089	0.130	116.1	0.010	0.00	0.0	0.600		o	100	Pipe/Conduit	
7.000	17.115	0.837	20.5	0.009	5.00	0.0	0.600		o	100	Pipe/Conduit	
6.002	11.187	0.170	65.8	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
6.003	11.853	0.100	118.5	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
8.000	11.467	0.143	80.3	0.018	5.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
2.002	50.00	5.50	37.320	0.000	0.0	0.0	0.0	2.30	40.6	0.0
4.000	50.00	5.22	36.718	0.002	0.0	0.0	0.0	0.86	6.8	0.4
5.000	50.00	5.12	36.845	0.000	0.0	0.0	0.0	0.86	6.8	0.0
4.001	50.00	5.52	36.577	0.009	0.0	0.0	0.0	0.77	6.0	1.7
2.003	50.00	5.67	36.311	0.038	0.0	0.0	0.0	1.00	39.8	6.9
1.012	50.00	8.31	36.260	0.276	0.0	0.0	0.0	2.72	7878.3	49.9
6.000	50.00	5.11	36.300	0.000	0.0	0.0	0.0	1.76	13.8	0.0
6.001	50.00	5.46	35.710	0.010	0.0	0.0	0.0	0.71	5.6	1.9
7.000	50.00	5.17	36.417	0.009	0.0	0.0	0.0	1.72	13.5	1.7
6.002	50.00	5.61	35.530	0.020	0.0	0.0	0.0	1.24	21.9	3.6
6.003	50.00	5.83	35.360	0.020	0.0	0.0	0.0	0.92	16.3	3.6
8.000	50.00	5.22	35.176	0.018	0.0	0.0	0.0	0.86	6.8	3.3

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
6.004	9.840	0.099	99.5	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	🔒
6.005	1.441	0.014	100.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
1.013	13.059	0.570	22.9	0.020	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
1.014	41.940	1.720	24.4	0.018	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
1.015	6.165	0.230	26.8	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
9.000	12.602	0.446	28.2	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
9.001	6.771	0.300	22.6	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	🔒
10.000	14.026	0.280	50.1	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
9.002	18.872	0.463	40.8	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	🔒
11.000	4.473	0.190	23.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
11.001	12.736	0.473	26.9	0.002	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
9.003	13.462	0.132	101.8	0.032	0.00	0.0	0.600		o	225	Pipe/Conduit	🔒
1.016	33.597	1.350	24.9	0.021	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
6.004	50.00	5.99	35.033	0.038	0.0	0.0	0.0	1.01	17.8	6.8
6.005	50.00	6.02	34.934	0.038	0.0	0.0	0.0	0.77	6.0«	6.8
1.013	50.00	8.39	34.920	0.334	0.0	0.0	0.0	2.69	6954.7	60.4
1.014	50.00	8.66	34.350	0.353	0.0	0.0	0.0	2.62	6838.6	63.7
1.015	50.00	8.70	32.630	0.353	0.0	0.0	0.0	2.61	7867.6	63.7
9.000	50.00	5.14	33.866	0.000	0.0	0.0	0.0	1.46	11.4	0.0
9.001	50.00	5.20	33.370	0.000	0.0	0.0	0.0	2.13	37.6	0.0
10.000	50.00	5.21	33.350	0.000	0.0	0.0	0.0	1.09	8.6	0.0
9.002	50.00	5.41	33.070	0.000	0.0	0.0	0.0	1.58	27.9	0.0
11.000	50.00	5.05	33.320	0.000	0.0	0.0	0.0	1.60	12.5	0.0
11.001	50.00	5.19	33.130	0.002	0.0	0.0	0.0	1.49	11.7	0.4
9.003	50.00	5.59	32.532	0.034	0.0	0.0	0.0	1.30	51.5	6.2
1.016	50.00	8.91	32.400	0.408	0.0	0.0	0.0	2.65	7405.7	73.6

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
12.000	13.238	0.280	47.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
12.001	18.154	0.215	84.4	0.016	0.00	0.0	0.600		o	100	Pipe/Conduit	
12.002	16.097	0.700	23.0	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
13.000	13.405	0.467	28.7	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
13.001	16.307	0.370	44.1	0.004	0.00	0.0	0.600		o	100	Pipe/Conduit	
12.003	9.220	0.130	70.9	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.017	4.083	0.170	24.0	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
1.018	27.215	0.740	36.8	0.030	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
1.019	10.151	0.280	36.3	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
1.020	22.673	0.860	26.4	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
14.000	10.212	0.003	3078.9	0.004	5.00	0.0	0.600		o	100	Pipe/Conduit	
14.001	9.041	1.110	8.1	0.009	0.00	0.0	0.600		o	100	Pipe/Conduit	
15.000	11.597	0.706	16.4	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
14.002	3.415	0.655	5.2	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
12.000	50.00	5.20	32.500	0.000	0.0	0.0	0.0	1.12	8.8	0.0
12.001	50.00	5.56	32.220	0.016	0.0	0.0	0.0	0.84	6.6	2.9
12.002	50.00	5.68	31.955	0.016	0.0	0.0	0.0	2.11	37.3	2.9
13.000	50.00	5.15	32.017	0.000	0.0	0.0	0.0	1.45	11.4	0.0
13.001	50.00	5.39	31.550	0.004	0.0	0.0	0.0	1.16	9.1	0.8
12.003	50.00	5.78	31.180	0.020	0.0	0.0	0.0	1.55	61.8	3.7
1.017	50.00	8.93	31.050	0.428	0.0	0.0	0.0	2.76	8289.4	77.3
1.018	50.00	9.21	30.880	0.458	0.0	0.0	0.0	1.67	2090.4	82.7
1.019	50.00	9.28	30.140	0.458	0.0	0.0	0.0	2.25	6765.0	82.7
1.020	50.00	9.42	29.860	0.458	0.0	0.0	0.0	2.64	7933.0	82.7
14.000	50.00	6.31	32.123	0.004	0.0	0.0	0.0	0.13	1.0	0.7
14.001	50.00	6.36	32.120	0.012	0.0	0.0	0.0	2.73	21.4	2.2
15.000	50.00	5.10	31.716	0.000	0.0	0.0	0.0	1.91	15.0	0.0
14.002	50.00	6.38	31.010	0.012	0.0	0.0	0.0	3.41	26.8	2.2

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
14.003	35.477	1.022	34.7	0.032	0.00	0.0	0.600		o	300	Pipe/Conduit	
16.000	7.565	0.661	11.4	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
16.001	12.716	0.439	28.9	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
17.000	15.621	0.400	39.1	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
16.002	9.637	0.260	37.1	0.004	0.00	0.0	0.600		o	150	Pipe/Conduit	
16.003	9.340	0.450	20.8	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
16.004	8.094	0.348	23.2	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
18.000	11.055	0.184	60.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
18.001	10.845	0.181	60.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
18.002	7.087	0.123	57.6	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
14.004	10.338	0.133	77.8	0.075	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.021	16.473	0.230	71.6	0.000	0.00	0.0	0.045	3	\=/	100	1:3 Swale	
1.022	11.943	0.100	119.4	0.000	0.00	0.0	0.045	3	\=/	100	1:3 Swale	
1.023	27.876	0.470	59.3	0.026	0.00	0.0	0.045	3	\=/	100	1:3 Swale	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
14.003	50.00	6.60	30.155	0.044	0.0	0.0	0.0	2.68	189.3	8.0
16.000	50.00	5.05	31.441	0.000	0.0	0.0	0.0	2.30	18.0	0.0
16.001	50.00	5.20	30.779	0.000	0.0	0.0	0.0	1.44	11.3	0.0
17.000	50.00	5.21	30.740	0.000	0.0	0.0	0.0	1.24	9.7	0.0
16.002	50.00	5.31	30.340	0.004	0.0	0.0	0.0	1.66	29.3	0.7
16.003	50.00	5.38	30.080	0.004	0.0	0.0	0.0	2.22	39.2	0.7
16.004	50.00	5.44	29.630	0.004	0.0	0.0	0.0	2.10	37.1	0.7
18.000	50.00	5.18	29.746	0.000	0.0	0.0	0.0	1.00	7.8	0.0
18.001	50.00	5.37	29.562	0.000	0.0	0.0	0.0	1.00	7.8	0.0
18.002	50.00	5.48	29.381	0.000	0.0	0.0	0.0	1.02	8.0	0.0
14.004	50.00	6.69	29.133	0.124	0.0	0.0	0.0	1.78	126.1	22.3
1.021	50.00	9.60	29.000	0.582	0.0	0.0	0.0	1.60	4813.1	105.0
1.022	50.00	9.76	28.770	0.582	0.0	0.0	0.0	1.24	3727.2	105.0
1.023	50.00	10.02	28.670	0.608	0.0	0.0	0.0	1.75	5205.0	109.8

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
19.000	10.895	0.109	100.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
19.001	5.821	0.058	100.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
19.002	10.950	0.109	100.0	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
20.000	9.088	0.126	72.4	0.005	5.00	0.0	0.600		o	100	Pipe/Conduit	
20.001	10.159	0.148	68.7	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
21.000	5.833	0.655	8.9	0.005	5.00	0.0	0.600		o	100	Pipe/Conduit	
20.002	6.134	0.452	13.6	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
22.000	9.002	0.728	12.4	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
19.003	12.591	0.097	130.0	0.042	0.00	0.0	0.600		o	225	Pipe/Conduit	
23.000	15.021	0.150	100.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
23.001	16.690	0.167	100.0	0.016	0.00	0.0	0.600		o	150	Pipe/Conduit	
24.000	9.618	0.133	72.2	0.009	5.00	0.0	0.600		o	100	Pipe/Conduit	
24.001	8.141	0.231	35.2	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
19.000	50.00	5.24	34.260	0.000	0.0	0.0	0.0	0.77	6.0	0.0
19.001	50.00	5.36	34.151	0.000	0.0	0.0	0.0	0.77	6.0	0.0
19.002	50.00	5.54	34.043	0.000	0.0	0.0	0.0	1.00	17.8	0.0
20.000	50.00	5.17	34.659	0.005	0.0	0.0	0.0	0.91	7.1	0.9
20.001	50.00	5.35	34.534	0.005	0.0	0.0	0.0	0.93	7.3	0.9
21.000	50.00	5.04	35.041	0.005	0.0	0.0	0.0	2.61	20.5	0.8
20.002	50.00	5.39	34.386	0.009	0.0	0.0	0.0	2.75	48.6	1.7
22.000	50.00	5.07	34.863	0.000	0.0	0.0	0.0	2.21	17.4	0.0
19.003	50.00	5.73	33.809	0.052	0.0	0.0	0.0	1.15	45.5	9.3
23.000	50.00	5.33	34.214	0.000	0.0	0.0	0.0	0.77	6.0	0.0
23.001	50.00	5.60	34.014	0.016	0.0	0.0	0.0	1.00	17.8	2.9
24.000	50.00	5.18	34.364	0.009	0.0	0.0	0.0	0.91	7.1	1.7
24.001	50.00	5.28	34.231	0.009	0.0	0.0	0.0	1.30	10.2	1.7

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
23.002	8.320	0.049	170.0	0.019	0.00	0.0	0.600		o	225	Pipe/Conduit	
25.000	4.022	0.999	4.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
19.004	37.339	0.115	325.0	0.046	0.00	0.0	0.600		o	450	Pipe/Conduit	
26.000	4.944	0.062	80.0	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit	
26.001	14.912	0.239	62.4	0.007	0.00	0.0	0.600		o	100	Pipe/Conduit	
27.000	10.657	1.250	8.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
26.002	8.262	0.210	39.3	0.004	0.00	0.0	0.600		o	100	Pipe/Conduit	
26.003	4.041	0.371	10.9	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
28.000	19.545	1.257	15.5	0.014	5.00	0.0	0.600		o	150	Pipe/Conduit	
26.004	28.756	3.766	7.6	0.047	0.00	0.0	0.600		o	150	Pipe/Conduit	
29.000	9.547	0.143	66.6	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit	
29.001	8.863	0.665	13.3	0.003	0.00	0.0	0.600		o	100	Pipe/Conduit	
29.002	30.254	2.832	10.7	0.060	0.00	0.0	0.600		o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
23.002	50.00	5.74	33.772	0.045	0.0	0.0	0.0	1.00	39.8	8.0
25.000	50.00	5.02	34.836	0.000	0.0	0.0	0.0	3.88	30.5	0.0
19.004	50.00	6.30	33.498	0.142	0.0	0.0	0.0	1.12	178.5	25.7
26.000	50.00	5.10	38.331	0.002	0.0	0.0	0.0	0.86	6.8	0.4
26.001	50.00	5.35	38.269	0.010	0.0	0.0	0.0	0.98	7.7	1.8
27.000	50.00	5.07	39.280	0.000	0.0	0.0	0.0	2.66	20.9	0.0
26.002	50.00	5.46	38.030	0.014	0.0	0.0	0.0	1.23	9.7	2.5
26.003	50.00	5.48	37.820	0.014	0.0	0.0	0.0	3.07	54.2	2.5
28.000	50.00	5.13	38.706	0.014	0.0	0.0	0.0	2.57	45.4	2.5
26.004	50.00	5.61	37.449	0.075	0.0	0.0	0.0	3.67	64.8	13.5
29.000	50.00	5.17	37.373	0.002	0.0	0.0	0.0	0.94	7.4	0.4
29.001	50.00	5.24	37.230	0.005	0.0	0.0	0.0	2.13	16.7	0.9
29.002	50.00	5.40	36.515	0.065	0.0	0.0	0.0	3.10	54.8	11.7

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
19.005	48.996	0.124	394.5	0.120	0.00	0.0	0.600		o	450	Pipe/Conduit	
30.000	6.326	0.079	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
30.001	6.482	0.081	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
30.002	5.090	0.064	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
30.003	6.237	0.116	53.6	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
31.000	10.385	0.130	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
31.001	8.261	0.103	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
30.004	9.306	2.451	3.8	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
32.000	10.022	0.127	78.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
32.001	8.061	0.663	12.2	0.004	0.00	0.0	0.600		o	100	Pipe/Conduit	
33.000	10.433	0.165	63.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
32.002	12.826	1.748	7.3	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
19.006	9.869	0.024	409.4	0.018	0.00	0.0	0.600		o	450	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
19.005	50.00	7.10	33.383	0.402	0.0	0.0	0.0	1.02	161.8	72.5
30.000	50.00	5.12	36.400	0.000	0.0	0.0	0.0	0.86	6.8	0.0
30.001	50.00	5.25	36.321	0.000	0.0	0.0	0.0	0.86	6.8	0.0
30.002	50.00	5.35	36.240	0.000	0.0	0.0	0.0	0.86	6.8	0.0
30.003	50.00	5.45	36.176	0.000	0.0	0.0	0.0	1.05	8.3	0.0
31.000	50.00	5.20	36.293	0.000	0.0	0.0	0.0	0.86	6.8	0.0
31.001	50.00	5.36	36.163	0.000	0.0	0.0	0.0	0.86	6.8	0.0
30.004	50.00	5.47	36.010	0.000	0.0	0.0	0.0	5.21	92.1	0.0
32.000	50.00	5.19	36.147	0.000	0.0	0.0	0.0	0.87	6.8	0.0
32.001	50.00	5.25	36.020	0.004	0.0	0.0	0.0	2.23	17.5	0.8
33.000	50.00	5.18	35.522	0.000	0.0	0.0	0.0	0.97	7.6	0.0
32.002	50.00	5.31	35.307	0.004	0.0	0.0	0.0	3.74	66.2	0.8
19.006	50.00	7.26	33.259	0.424	0.0	0.0	0.0	1.00	158.8	76.5

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
34.000	13.202	0.165	80.2	0.014	5.00	0.0	0.600		o	100	Pipe/Conduit	
34.001	6.725	0.084	79.8	0.004	0.00	0.0	0.600		o	225	Pipe/Conduit	
35.000	11.923	0.228	52.2	0.006	5.00	0.0	0.600		o	100	Pipe/Conduit	
34.002	29.417	0.986	29.8	0.030	0.00	0.0	0.600		o	225	Pipe/Conduit	
36.000	11.941	0.613	19.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
34.003	4.873	0.160	30.5	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
34.004	19.071	0.319	59.7	0.012	0.00	0.0	0.600		o	300	Pipe/Conduit	
37.000	13.924	0.174	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
37.001	21.975	0.376	58.4	0.007	0.00	0.0	0.600		o	100	Pipe/Conduit	
38.000	12.670	0.170	74.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
37.002	20.755	0.624	33.3	0.012	0.00	0.0	0.600		o	150	Pipe/Conduit	
34.005	18.535	0.976	19.0	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
34.000	50.00	5.26	39.610	0.014	0.0	0.0	0.0	0.86	6.8	2.6
34.001	50.00	5.33	39.320	0.019	0.0	0.0	0.0	1.46	58.2	3.4
35.000	50.00	5.19	39.589	0.006	0.0	0.0	0.0	1.07	8.4	1.0
34.002	50.00	5.54	39.236	0.054	0.0	0.0	0.0	2.40	95.6	9.8
36.000	50.00	5.11	38.988	0.000	0.0	0.0	0.0	1.76	13.8	0.0
34.003	50.00	5.57	38.250	0.054	0.0	0.0	0.0	2.38	94.6	9.8
34.004	50.00	5.73	38.090	0.067	0.0	0.0	0.0	2.04	144.0	12.0
37.000	50.00	5.27	39.070	0.000	0.0	0.0	0.0	0.86	6.8	0.0
37.001	50.00	5.63	38.896	0.007	0.0	0.0	0.0	1.01	7.9	1.2
38.000	50.00	5.24	38.690	0.000	0.0	0.0	0.0	0.89	7.0	0.0
37.002	50.00	5.83	38.470	0.019	0.0	0.0	0.0	1.75	31.0	3.4
34.005	50.00	5.93	37.771	0.086	0.0	0.0	0.0	3.02	119.9	15.5

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
39.000	9.338	0.660	14.1	0.000	5.00	0.0	0.600		o	150	Pipe/Conduit	
40.000	7.148	0.895	8.0	0.000	5.00	0.0	0.600		o	225	Pipe/Conduit	
34.006	30.842	1.217	25.3	0.047	0.00	0.0	0.600		o	300	Pipe/Conduit	
41.000	5.343	0.162	32.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
41.001	12.219	0.159	76.8	0.002	0.00	0.0	0.600		o	100	Pipe/Conduit	
41.002	9.993	1.445	6.9	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
42.000	2.570	0.327	7.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
34.007	11.227	1.952	5.8	0.023	0.00	0.0	0.600		o	300	Pipe/Conduit	
19.007	11.333	0.028	405.0	0.007	0.00	0.0	0.600		o	450	Pipe/Conduit	
43.000	7.066	0.111	63.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
43.001	2.649	0.040	66.2	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
43.002	12.205	0.153	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
43.003	3.775	0.047	79.6	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
39.000	50.00	5.06	37.530	0.000	0.0	0.0	0.0	2.69	47.6	0.0
40.000	50.00	5.03	37.690	0.000	0.0	0.0	0.0	4.66	185.3	0.0
34.006	50.00	6.10	36.720	0.133	0.0	0.0	0.0	3.14	221.6	23.9
41.000	50.00	5.07	37.420	0.000	0.0	0.0	0.0	1.35	10.6	0.0
41.001	50.00	5.30	37.258	0.002	0.0	0.0	0.0	0.88	6.9	0.4
41.002	50.00	5.34	37.098	0.002	0.0	0.0	0.0	3.86	68.2	0.4
42.000	50.00	5.02	36.030	0.000	0.0	0.0	0.0	2.77	21.8	0.0
34.007	50.00	6.12	35.503	0.158	0.0	0.0	0.0	6.60	466.4	28.5
19.007	50.00	7.45	33.235	0.589	0.0	0.0	0.0	1.00	159.7	106.3
43.000	50.00	5.12	35.591	0.000	0.0	0.0	0.0	0.97	7.6	0.0
43.001	50.00	5.17	35.480	0.000	0.0	0.0	0.0	0.95	7.4	0.0
43.002	50.00	5.40	35.440	0.000	0.0	0.0	0.0	0.86	6.8	0.0
43.003	50.00	5.48	35.287	0.000	0.0	0.0	0.0	0.86	6.8	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
44.000	12.883	0.610	21.1	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
45.000	6.491	0.290	22.4	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
43.004	7.011	1.524	4.6	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
19.008	41.812	0.253	165.5	0.112	0.00	0.0	0.600		o	450	Pipe/Conduit	
46.000	6.245	0.070	89.6	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
46.001	6.497	1.206	5.4	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
47.000	6.277	0.104	60.4	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
47.001	5.007	0.263	19.1	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
46.002	41.205	0.581	71.0	0.033	0.00	0.0	0.600		o	225	Pipe/Conduit	
48.000	12.268	1.380	8.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
48.001	17.204	0.430	40.0	0.013	0.00	0.0	0.600		o	150	Pipe/Conduit	
49.000	7.110	0.084	84.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
44.000	50.00	5.13	35.850	0.000	0.0	0.0	0.0	1.69	13.3	0.0
45.000	50.00	5.07	35.530	0.000	0.0	0.0	0.0	1.64	12.9	0.0
43.004	50.00	5.50	35.190	0.000	0.0	0.0	0.0	4.73	83.6	0.0
19.008	50.00	7.89	33.207	0.700	0.0	0.0	0.0	1.58	250.9	126.5
46.000	50.00	5.13	35.161	0.000	0.0	0.0	0.0	0.81	6.4	0.0
46.001	50.00	5.16	35.092	0.000	0.0	0.0	0.0	3.35	26.3	0.0
47.000	50.00	5.11	34.252	0.000	0.0	0.0	0.0	0.99	7.8	0.0
47.001	50.00	5.15	34.148	0.000	0.0	0.0	0.0	1.78	14.0	0.0
46.002	50.00	5.60	33.760	0.033	0.0	0.0	0.0	1.55	61.8	5.9
48.000	50.00	5.08	35.740	0.000	0.0	0.0	0.0	2.61	20.5	0.0
48.001	50.00	5.26	34.360	0.013	0.0	0.0	0.0	1.60	28.2	2.3
49.000	50.00	5.14	34.584	0.000	0.0	0.0	0.0	0.84	6.6	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
49.001	17.207	0.570	30.2	0.011	0.00	0.0	0.600		o	100	Pipe/Conduit	
48.002	5.542	0.550	10.1	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
50.000	12.613	0.158	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
50.001	3.146	0.037	84.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
48.003	9.869	0.126	78.6	0.007	0.00	0.0	0.600		o	225	Pipe/Conduit	
19.009	32.727	2.720	12.0	0.020	0.00	0.0	0.600		o	450	Pipe/Conduit	
51.000	7.540	0.780	9.7	0.014	5.00	0.0	0.600		o	100	Pipe/Conduit	
51.001	15.003	0.543	27.6	0.004	0.00	0.0	0.600		o	100	Pipe/Conduit	
51.002	7.891	0.929	8.5	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
52.000	14.212	0.178	79.9	0.007	5.00	0.0	0.600		o	100	Pipe/Conduit	
51.003	13.122	0.164	80.1	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
53.000	11.274	0.194	58.2	0.014	5.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
49.001	50.00	5.34	34.500	0.011	0.0	0.0	0.0	1.41	11.1	2.0
48.002	50.00	5.37	33.930	0.024	0.0	0.0	0.0	3.19	56.4	4.3
50.000	50.00	5.24	33.625	0.000	0.0	0.0	0.0	0.86	6.8	0.0
50.001	50.00	5.31	33.467	0.000	0.0	0.0	0.0	0.84	6.6	0.0
48.003	50.00	5.49	33.380	0.031	0.0	0.0	0.0	1.48	58.7	5.5
19.009	50.00	7.99	32.954	0.784	0.0	0.0	0.0	5.89	936.0	141.5
51.000	50.00	5.05	34.012	0.014	0.0	0.0	0.0	2.50	19.6	2.5
51.001	50.00	5.22	33.232	0.018	0.0	0.0	0.0	1.47	11.6	3.3
51.002	50.00	5.27	32.689	0.018	0.0	0.0	0.0	2.67	21.0	3.3
52.000	50.00	5.27	31.938	0.007	0.0	0.0	0.0	0.86	6.8	1.2
51.003	50.00	5.47	31.710	0.025	0.0	0.0	0.0	1.12	19.9	4.5
53.000	50.00	5.19	32.700	0.014	0.0	0.0	0.0	1.01	7.9	2.5

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
54.000	5.399	0.290	18.6	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
54.001	5.141	0.277	18.6	0.007	0.00	0.0	0.600		o	100	Pipe/Conduit	
53.001	9.150	1.922	4.8	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
19.010	12.398	0.031	400.0	0.030	0.00	0.0	0.600		o	600	Pipe/Conduit	
55.000	13.192	0.169	78.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
56.000	11.786	0.430	27.4	0.014	5.00	0.0	0.600		o	100	Pipe/Conduit	
55.001	9.359	0.180	52.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
57.000	13.984	0.128	109.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
55.002	7.652	1.486	5.1	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
19.011	16.107	0.040	400.0	0.015	0.00	0.0	0.600		o	600	Pipe/Conduit	
58.000	3.533	0.090	39.3	0.006	5.00	0.0	0.600		o	100	Pipe/Conduit	
58.001	10.371	1.156	9.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
54.000	50.00	5.05	33.073	0.000	0.0	0.0	0.0	1.80	14.1	0.0
54.001	50.00	5.10	32.783	0.007	0.0	0.0	0.0	1.80	14.1	1.3
53.001	50.00	5.22	32.456	0.021	0.0	0.0	0.0	4.65	82.2	3.8
19.010	50.00	8.16	30.085	0.860	0.0	0.0	0.0	1.21	342.5	155.3
55.000	50.00	5.25	32.389	0.000	0.0	0.0	0.0	0.87	6.8	0.0
56.000	50.00	5.13	32.650	0.014	0.0	0.0	0.0	1.48	11.6	2.5
55.001	50.00	5.40	32.220	0.014	0.0	0.0	0.0	1.07	8.4	2.5
57.000	50.00	5.32	32.168	0.000	0.0	0.0	0.0	0.74	5.8	0.0
55.002	50.00	5.43	31.990	0.014	0.0	0.0	0.0	4.47	79.0	2.5
19.011	50.00	8.38	30.054	0.889	0.0	0.0	0.0	1.21	342.5	160.4
58.000	50.00	5.05	32.350	0.006	0.0	0.0	0.0	1.23	9.7	1.1
58.001	50.00	5.11	32.260	0.006	0.0	0.0	0.0	2.60	20.4	1.1

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
19.012	57.300	0.143	399.6	0.114	0.00	0.0	0.600		o	600	Pipe/Conduit	
59.000	11.988	0.670	17.9	0.005	5.00	0.0	0.600		o	100	Pipe/Conduit	
59.001	40.659	0.491	82.8	0.033	0.00	0.0	0.600		o	150	Pipe/Conduit	
60.000	12.302	0.772	15.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
59.002	10.248	0.274	37.5	0.007	0.00	0.0	0.600		o	225	Pipe/Conduit	
61.000	7.054	0.088	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
61.001	2.514	0.032	77.5	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
61.002	12.680	0.350	36.2	0.004	0.00	0.0	0.600		o	100	Pipe/Conduit	
62.000	7.646	0.530	14.4	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
61.003	14.385	0.500	28.8	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
63.000	9.759	0.058	166.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
64.000	5.141	0.046	110.8	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
19.012	50.00	9.17	30.013	1.009	0.0	0.0	0.0	1.21	342.7	182.2
59.000	50.00	5.11	31.730	0.005	0.0	0.0	0.0	1.83	14.4	1.0
59.001	50.00	5.72	31.010	0.038	0.0	0.0	0.0	1.11	19.5	6.9
60.000	50.00	5.11	31.542	0.000	0.0	0.0	0.0	1.94	15.3	0.0
59.002	50.00	5.80	30.519	0.045	0.0	0.0	0.0	2.14	85.3	8.2
61.000	50.00	5.14	31.291	0.000	0.0	0.0	0.0	0.86	6.8	0.0
61.001	50.00	5.18	31.202	0.000	0.0	0.0	0.0	0.87	6.9	0.0
61.002	50.00	5.35	31.170	0.004	0.0	0.0	0.0	1.29	10.1	0.8
62.000	50.00	5.06	31.350	0.000	0.0	0.0	0.0	2.04	16.1	0.0
61.003	50.00	5.48	30.820	0.004	0.0	0.0	0.0	1.88	33.3	0.8
63.000	50.00	5.27	31.495	0.000	0.0	0.0	0.0	0.59	4.7	0.0
64.000	50.00	5.12	31.483	0.000	0.0	0.0	0.0	0.73	5.7	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
63.001	9.586	1.066	9.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
19.013	21.227	0.074	285.0	0.040	0.00	0.0	0.600		o	600	Pipe/Conduit	
65.000	11.876	0.198	59.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
65.001	17.682	0.901	19.6	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
66.000	13.080	1.271	10.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
65.002	11.173	0.384	29.1	0.031	0.00	0.0	0.600		o	150	Pipe/Conduit	
65.003	21.742	0.677	32.1	0.011	0.00	0.0	0.600		o	150	Pipe/Conduit	
67.000	10.718	0.328	32.7	0.012	5.00	0.0	0.600		o	100	Pipe/Conduit	
67.001	6.231	0.789	7.9	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
65.004	7.177	0.303	23.7	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
65.005	10.324	0.467	22.1	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
68.000	6.744	0.490	13.8	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
63.001	50.00	5.34	31.436	0.000	0.0	0.0	0.0	2.59	20.4	0.0
19.013	50.00	9.41	29.870	1.099	0.0	0.0	0.0	1.44	406.4	198.5
65.000	50.00	5.20	39.202	0.000	0.0	0.0	0.0	1.00	7.8	0.0
65.001	50.00	5.37	39.003	0.000	0.0	0.0	0.0	1.75	13.8	0.0
66.000	50.00	5.09	39.374	0.000	0.0	0.0	0.0	2.42	19.0	0.0
65.002	50.00	5.47	38.052	0.031	0.0	0.0	0.0	1.87	33.1	5.6
65.003	50.00	5.67	37.668	0.042	0.0	0.0	0.0	1.78	31.5	7.6
67.000	50.00	5.13	38.158	0.012	0.0	0.0	0.0	1.35	10.6	2.2
67.001	50.00	5.17	37.830	0.012	0.0	0.0	0.0	2.77	21.7	2.2
65.004	50.00	5.71	36.917	0.054	0.0	0.0	0.0	2.70	107.3	9.8
65.005	50.00	5.78	36.614	0.054	0.0	0.0	0.0	2.80	111.2	9.8
68.000	50.00	5.05	36.761	0.000	0.0	0.0	0.0	2.09	16.4	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
65.006	41.157	2.492	16.5	0.087	0.00	0.0	0.600		o	300	Pipe/Conduit	
69.000	7.897	0.099	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
69.001	11.899	0.149	79.9	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
69.002	8.141	0.366	22.2	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
65.007	38.185	2.183	17.5	0.032	0.00	0.0	0.600		o	375	Pipe/Conduit	
70.000	10.436	0.130	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
70.001	14.417	0.251	57.5	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
70.002	5.569	0.380	14.6	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
71.000	10.704	0.040	268.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
70.003	6.038	0.730	8.3	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
72.000	7.727	0.062	124.7	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
70.004	6.469	0.459	14.1	0.006	0.00	0.0	0.600		o	150	Pipe/Conduit	
65.008	24.322	1.375	17.7	0.036	0.00	0.0	0.600		o	375	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
65.006	50.00	5.95	36.071	0.141	0.0	0.0	0.0	3.89	274.8	25.5
69.000	50.00	5.15	34.468	0.000	0.0	0.0	0.0	0.86	6.8	0.0
69.001	50.00	5.38	34.369	0.000	0.0	0.0	0.0	0.86	6.8	0.0
69.002	50.00	5.47	34.220	0.000	0.0	0.0	0.0	1.64	12.9	0.0
65.007	50.00	6.10	33.579	0.173	0.0	0.0	0.0	4.35	480.5	31.3
70.000	50.00	5.20	33.621	0.000	0.0	0.0	0.0	0.86	6.8	0.0
70.001	50.00	5.44	33.491	0.000	0.0	0.0	0.0	1.02	8.0	0.0
70.002	50.00	5.48	33.240	0.000	0.0	0.0	0.0	2.03	15.9	0.0
71.000	50.00	5.38	32.900	0.000	0.0	0.0	0.0	0.46	3.6	0.0
70.003	50.00	5.51	32.810	0.000	0.0	0.0	0.0	3.52	62.3	0.0
72.000	50.00	5.19	32.192	0.000	0.0	0.0	0.0	0.69	5.4	0.0
70.004	50.00	5.55	32.080	0.006	0.0	0.0	0.0	2.70	47.7	1.0
65.008	50.00	6.19	31.396	0.215	0.0	0.0	0.0	4.33	477.7	38.9

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
73.000	5.145	0.064	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
73.001	7.866	0.524	15.0	0.010	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
19.014	16.174	0.040	400.0	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	🔒
19.015	10.654	0.027	400.0	0.024	0.00	0.0	0.600		o	600	Pipe/Conduit	🔒
19.016	30.660	0.359	85.4	0.022	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
19.017	32.076	0.570	56.3	0.036	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
19.018	19.419	0.600	32.4	0.015	0.00	0.0		0.045	3 \=/	100	1:3 Swale	🔒
74.000	13.172	0.047	277.8	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
74.001	10.648	0.127	83.9	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
74.002	14.890	0.401	37.1	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
75.000	3.527	0.212	16.6	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
75.001	13.544	0.390	34.7	0.002	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒
74.003	16.017	0.218	73.5	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	🔒
76.000	13.512	0.894	15.1	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	🔒
76.001	12.204	0.704	17.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	🔒

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
73.000	50.00	5.10	30.884	0.000	0.0	0.0	0.0	0.86	6.8	0.0
73.001	50.00	5.17	30.820	0.010	0.0	0.0	0.0	2.00	15.7	1.8
19.014	50.00	9.63	29.796	1.324	0.0	0.0	0.0	1.21	342.5	239.1
19.015	50.00	9.78	29.755	1.348	0.0	0.0	0.0	1.21	342.5	243.4
19.016	50.00	10.13	29.729	1.370	0.0	0.0	0.0	1.46	4407.6	247.4
19.017	50.00	10.43	29.370	1.406	0.0	0.0	0.0	1.80	5429.9	253.9
19.018	50.00	10.56	28.800	1.422	0.0	0.0	0.0	2.38	7121.8	256.7
74.000	50.00	5.48	29.476	0.000	0.0	0.0	0.0	0.46	3.6	0.0
74.001	50.00	5.69	29.428	0.000	0.0	0.0	0.0	0.84	6.6	0.0
74.002	50.00	5.89	29.301	0.000	0.0	0.0	0.0	1.27	10.0	0.0
75.000	50.00	5.03	29.502	0.000	0.0	0.0	0.0	1.90	14.9	0.0
75.001	50.00	5.20	29.290	0.002	0.0	0.0	0.0	1.31	10.3	0.4
74.003	50.00	6.11	28.850	0.002	0.0	0.0	0.0	1.17	20.8	0.4
76.000	50.00	5.11	30.279	0.000	0.0	0.0	0.0	2.00	15.7	0.0
76.001	50.00	5.22	29.386	0.000	0.0	0.0	0.0	1.86	14.6	0.0

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 5

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
77.000	11.061	0.710	15.6	0.006	5.00	0.0	0.600		o	100	Pipe/Conduit	
74.004	17.048	0.282	60.5	0.045	0.00	0.0	0.600		o	300	Pipe/Conduit	
78.000	3.036	0.210	14.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
1.024	5.796	0.775	7.5	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.025	58.041	0.600	96.7	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.026	36.148	1.000	36.1	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.027	37.630	1.609	23.4	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.028	8.860	0.041	218.2	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.029	18.180	1.075	16.9	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
77.000	50.00	5.09	29.392	0.006	0.0	0.0	0.0	1.97	15.4	1.0
74.004	50.00	6.25	28.482	0.053	0.0	0.0	0.0	2.03	143.2	9.5
78.000	50.00	5.02	28.410	0.000	0.0	0.0	0.0	2.04	16.0	0.0
1.024	50.00	10.57	28.200	2.082	0.0	0.0	0.0	9.62	3442.2	376.0
1.025	50.00	10.94	27.425	2.082	0.0	0.0	0.0	2.67	953.7	376.0
1.026	50.00	11.07	26.825	2.082	0.0	0.0	0.0	4.37	1563.1	376.0
1.027	50.00	11.19	25.825	2.082	0.0	0.0	0.0	5.43	1944.7	376.0
1.028	50.00	11.27	24.216	2.082	0.0	0.0	0.0	1.77	633.4	376.0
1.029	50.00	11.32	24.175	2.082	0.0	0.0	0.0	6.39	2287.5	376.0

Free Flowing Outfall Details for Surface Network 5

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.029	S3066	25.459	23.100	0.000	0	0

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Simulation Criteria for Surface Network 5

Volumetric Runoff Coeff	1.000	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 507546 105033 TQ 07546 05033
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	0.840
Storm Duration (mins)	30

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	2013
Site Location	GB 507546 105033 TQ 07546 05033
Data Type	Point
Cv (Summer)	0.850
Cv (Winter)	0.900

Margin for Flood Risk Warning (mm)	200.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	OFF
Inertia Status	OFF

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	PS1666	15 Summer	100	+40%	100/15 Summer				40.490
1.001	PS1665	15 Summer	100	+40%	100/15 Summer				40.497
1.002	PS1664	15 Summer	100	+40%	100/15 Summer				40.510
1.003	PS1663	15 Summer	100	+40%	100/15 Summer				39.994
1.004	PS1661	15 Summer	100	+40%	100/15 Summer				39.732
1.005	PS2904	15 Summer	100	+40%					39.568
1.006	PS2905	15 Summer	100	+40%					39.434
1.007	PS2906	15 Summer	100	+40%					39.193
1.008	PS2907	15 Summer	100	+40%					38.906
1.009	PS2908	15 Summer	100	+40%					38.350
1.010	PS2909	15 Summer	100	+40%					38.046
1.011	PS2910	15 Summer	100	+40%					37.757
2.000	PS1754	15 Summer	100	+40%					38.134
2.001	PS1753	15 Summer	100	+40%					37.990
3.000	PS1760	15 Summer	100	+40%					38.090
3.001	PS1759	15 Summer	100	+40%					37.580
2.002	PS1752	15 Summer	100	+40%					37.320

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	PS1666	0.336	0.000	0.09			0.6	FLOOD RISK	
1.001	PS1665	0.459	0.000	0.33			1.8	SURCHARGED	
1.002	PS1664	0.539	0.000	1.79			10.8	SURCHARGED	
1.003	PS1663	0.184	0.000	1.27			21.1	SURCHARGED	
1.004	PS1661	0.073	0.000	1.22			21.2	SURCHARGED	
1.005	PS2904	-0.951	0.000	0.01			35.3	OK	
1.006	PS2905	-0.839	0.000	0.01			56.4	OK	
1.007	PS2906	-0.860	0.000	0.01			56.9	OK	
1.008	PS2907	-0.820	0.000	0.01			74.4	OK	
1.009	PS2908	-0.792	0.000	0.03			134.5	OK	
1.010	PS2909	-0.756	0.000	0.03			144.9	OK	
1.011	PS2910	-0.799	0.000	0.02			152.6	OK	
2.000	PS1754	-0.100	0.000	0.00			0.0	OK	
2.001	PS1753	-0.100	0.000	0.00			0.0	OK	
3.000	PS1760	-0.100	0.000	0.00			0.0	OK	
3.001	PS1759	-0.100	0.000	0.00			0.0	OK	
2.002	PS1752	-0.150	0.000	0.00			0.0	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
4.000	PS1770	15 Summer	100	+40%					36.770
5.000	PS1779	15 Summer	100	+40%					36.845
4.001	PS1768	15 Summer	100	+40%	100/15 Summer				36.756
2.003	PS1750	15 Summer	100	+40%					36.532
1.012	PS2927	15 Summer	100	+40%					36.485
6.000	PS3062	15 Summer	100	+40%					36.300
6.001	PS1780	15 Summer	100	+40%	100/15 Summer				36.190
7.000	PS1778	15 Summer	100	+40%					36.469
6.002	PS1777	15 Summer	100	+40%	100/15 Summer				35.985
6.003	PS1776	15 Summer	100	+40%	100/15 Summer				35.910
8.000	PS1787	15 Summer	100	+40%	100/15 Summer				36.008
6.004	PS1774	15 Summer	100	+40%	100/15 Summer				35.832
6.005	PS3076	15 Summer	100	+40%	100/15 Summer				35.084
1.013	PS2911	15 Summer	100	+40%					35.158
1.014	PS2922	15 Summer	100	+40%					34.596
1.015	PS2913	15 Summer	100	+40%					32.879
9.000	PS1802	15 Summer	100	+40%					33.866
9.001	PS1797	15 Summer	100	+40%					33.370
10.000	PS1808	15 Summer	100	+40%					33.350
9.002	PS1796	15 Summer	100	+40%					33.070
11.000	PS1813	15 Summer	100	+40%					33.320
11.001	PS1812	15 Summer	100	+40%					33.157
9.003	PS1795	15 Summer	100	+40%					32.708
1.016	PS2929	15 Summer	100	+40%					32.662
12.000	PS1826	15 Summer	100	+40%	100/15 Summer				32.842
12.001	PS1825	15 Summer	100	+40%	100/15 Summer				32.848
12.002	PS1824	15 Summer	100	+40%					32.015
13.000	PS2854	15 Summer	100	+40%					32.017
13.001	PS2855	15 Summer	100	+40%					31.594
12.003	PS1818	15 Summer	100	+40%					31.332
1.017	PS2940	15 Summer	100	+40%					31.314
1.018	PS2914	15 Summer	100	+40%					31.178
1.019	PS2915	15 Summer	100	+40%					30.438
1.020	PS2916	15 Summer	100	+40%					30.127
14.000	PS2170	15 Summer	100	+40%	100/15 Summer				32.240
14.001	PS2169	15 Summer	100	+40%					32.169
15.000	PS2167	15 Summer	100	+40%					31.716
14.002	PS2166	15 Summer	100	+40%					31.056
14.003	PS32	15 Summer	100	+40%					30.247
16.000	PS1845	15 Summer	100	+40%					31.441
16.001	PS1851	15 Summer	100	+40%					30.779
17.000	PS1843	15 Summer	100	+40%					30.740
16.002	PS1842	15 Summer	100	+40%					30.375
16.003	PS1840	15 Summer	100	+40%					30.111
16.004	PS1839	15 Summer	100	+40%					29.662
18.000	PS1866	15 Summer	100	+40%					29.746
18.001	PS1865	15 Summer	100	+40%					29.562
18.002	PS1862	15 Summer	100	+40%	100/15 Summer				29.506
14.004	PS2941	15 Summer	100	+40%	100/15 Summer				29.510

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
4.000	PS1770	-0.048	0.000	0.27			1.7	OK	
5.000	PS1779	-0.100	0.000	0.00			0.0	OK	
4.001	PS1768	0.080	0.000	1.23			7.1	SURCHARGED	
2.003	PS1750	-0.004	0.000	0.94			30.0	OK	
1.012	PS2927	-0.741	0.000	0.02			195.6	OK	
6.000	PS3062	-0.100	0.000	0.00			0.0	OK	
6.001	PS1780	0.380	0.000	1.40			7.5	SURCHARGED	
7.000	PS1778	-0.048	0.000	0.53			6.8	OK	
6.002	PS1777	0.305	0.000	0.66			13.1	SURCHARGED	
6.003	PS1776	0.400	0.000	0.87			12.8	SURCHARGED	
8.000	PS1787	0.732	0.000	1.60			10.2	FLOOD RISK	
6.004	PS1774	0.648	0.000	1.29			20.5	FLOOD RISK	
6.005	PS3076	0.050	0.000	5.10			20.1	FLOOD RISK*	
1.013	PS2911	-0.674	0.000	0.03			227.1	OK	
1.014	PS2922	-0.671	0.000	0.03			237.6	OK	
1.015	PS2913	-0.743	0.000	0.04			235.5	OK	
9.000	PS1802	-0.100	0.000	0.00			0.0	OK	
9.001	PS1797	-0.150	0.000	0.00			0.0	OK	
10.000	PS1808	-0.100	0.000	0.00			0.0	OK	
9.002	PS1796	-0.150	0.000	0.00			0.0	OK	
11.000	PS1813	-0.100	0.000	0.00			0.0	OK	
11.001	PS1812	-0.073	0.000	0.17			1.9	OK	
9.003	PS1795	-0.049	0.000	0.61			27.4	OK	
1.016	PS2929	-0.687	0.000	0.04			269.6	OK	
12.000	PS1826	0.242	0.000	0.07			0.6	SURCHARGED	
12.001	PS1825	0.528	0.000	1.84			11.6	FLOOD RISK	
12.002	PS1824	-0.090	0.000	0.34			11.6	OK	
13.000	PS2854	-0.100	0.000	0.00			0.0	OK	
13.001	PS2855	-0.056	0.000	0.40			3.5	OK	
12.003	PS1818	-0.073	0.000	0.29			14.6	OK	
1.017	PS2940	-0.720	0.000	0.04			283.7	OK	
1.018	PS2914	-0.332	0.000	0.14			300.1	OK	
1.019	PS2915	-0.693	0.000	0.05			302.9	OK	
1.020	PS2916	-1.314	0.000	0.01			303.6	OK	
14.000	PS2170	0.016	0.000	1.10			2.7	SURCHARGED	
14.001	PS2169	-0.051	0.000	0.48			9.6	OK	
15.000	PS2167	-0.100	0.000	0.00			0.0	OK	
14.002	PS2166	-0.054	0.000	0.43			9.5	OK	
14.003	PS32	-0.208	0.000	0.20			35.7	OK	
16.000	PS1845	-0.100	0.000	0.00			0.0	OK	
16.001	PS1851	-0.100	0.000	0.00			0.0	OK	
17.000	PS1843	-0.100	0.000	0.00			0.0	OK	
16.002	PS1842	-0.115	0.000	0.12			3.2	OK	
16.003	PS1840	-0.119	0.000	0.09			3.2	OK	
16.004	PS1839	-0.118	0.000	0.10			3.2	OK	
18.000	PS1866	-0.100	0.000	0.00			0.0	OK	
18.001	PS1865	-0.100	0.000	0.00			0.0	OK	
18.002	PS1862	0.025	0.000	0.07			0.5	SURCHARGED	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
14.004	PS2941	0.077	0.000	1.06			97.0	SURCHARGED	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.021	PS2716	15 Summer	100	+40%				
1.022	PS2917	15 Summer	100	+40%				
1.023	PS2918	15 Summer	100	+40%				
19.000	PS2064	15 Summer	100	+40%	100/15 Summer			
19.001	PS2063	15 Summer	100	+40%	100/15 Summer			
19.002	PS2062	15 Summer	100	+40%	100/15 Summer			
20.000	PS2072	15 Summer	100	+40%	100/15 Summer	100/15 Summer		
20.001	PS2071	15 Summer	100	+40%	100/15 Summer			
21.000	PS2069	15 Summer	100	+40%	100/15 Summer			
20.002	PS2068	15 Summer	100	+40%	100/15 Summer			
22.000	PS2060	15 Summer	100	+40%	100/15 Summer			
19.003	S35	15 Summer	100	+40%	100/15 Summer			
23.000	PS2090	15 Summer	100	+40%	100/15 Summer			
23.001	S2723	15 Summer	100	+40%	100/15 Summer			
24.000	PS2084	15 Summer	100	+40%	100/15 Summer	100/15 Summer		
24.001	PS2083	15 Summer	100	+40%	100/15 Summer			
23.002	S36	15 Summer	100	+40%	100/15 Summer			
25.000	PS2056	15 Summer	100	+40%	100/15 Summer			
19.004	S37	15 Summer	100	+40%	100/15 Summer			
26.000	PS2257	15 Summer	100	+40%	100/15 Summer			
26.001	PS2256	15 Summer	100	+40%	100/15 Summer			
27.000	PS1687	15 Summer	100	+40%				
26.002	PS2255	15 Summer	100	+40%	100/15 Summer			
26.003	PS2252	15 Summer	100	+40%				
28.000	PS2887	15 Summer	100	+40%				
26.004	S39	15 Summer	100	+40%	100/15 Summer			
29.000	PS1566	15 Summer	100	+40%				
29.001	PS1565	15 Summer	100	+40%				
29.002	S41	15 Summer	100	+40%	100/15 Summer			
19.005	S2709	15 Summer	100	+40%	100/15 Summer			
30.000	PS1602	15 Summer	100	+40%				
30.001	PS1601	15 Summer	100	+40%				
30.002	PS3053	15 Summer	100	+40%				
30.003	PS2819	15 Summer	100	+40%				
31.000	PS2986	15 Summer	100	+40%				
31.001	PS2987	15 Summer	100	+40%				
30.004	PS1599	15 Summer	100	+40%				
32.000	PS2026	15 Summer	100	+40%				
32.001	PS2025	15 Summer	100	+40%				
33.000	PS3050	15 Summer	100	+40%				
32.002	PS2029	15 Summer	100	+40%				
19.006	S43	15 Summer	100	+40%	100/15 Summer			
34.000	PS1686	15 Summer	100	+40%	100/15 Summer			
34.001	PS1685	15 Summer	100	+40%				
35.000	PS1702	15 Summer	100	+40%				
34.002	PS1701	15 Summer	100	+40%				
36.000	PS1712	15 Summer	100	+40%				
34.003	PS1700	15 Summer	100	+40%				
34.004	PS1699	15 Summer	100	+40%				

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.021	PS2716	29.368	-0.628	0.000	0.08			376.7	OK
1.022	PS2917	29.178	-0.609	0.000	0.09			378.7	OK
1.023	PS2918	29.027	-0.622	0.000	0.07			387.8	OK
19.000	PS2064	35.242	0.882	0.000	0.19			1.1	FLOOD RISK
19.001	PS2063	35.247	0.996	0.000	0.44			2.3	FLOOD RISK
19.002	PS2062	35.255	1.061	0.000	0.22			3.5	SURCHARGED
20.000	PS2072	35.180	0.420	0.158	0.96			6.3	FLOOD
20.001	PS2071	35.222	0.588	0.000	1.24			8.5	FLOOD RISK
21.000	PS2069	35.279	0.138	0.000	0.20			3.7	SURCHARGED
20.002	PS2068	35.262	0.726	0.000	0.29			11.9	SURCHARGED
22.000	PS2060	35.256	0.293	0.000	0.04			0.6	SURCHARGED
19.003	S35	35.260	1.227	0.000	0.96			37.7	SURCHARGED
23.000	PS2090	35.273	0.958	0.000	0.19			1.1	FLOOD RISK
23.001	S2723	35.279	1.115	0.000	0.98			16.2	FLOOD RISK
24.000	PS2084	35.423	0.959	0.007	0.97			6.4	FLOOD
24.001	PS2083	35.328	0.997	0.000	0.80			7.6	SURCHARGED
23.002	S36	35.245	1.248	0.000	1.23			38.4	SURCHARGED
25.000	PS2056	35.215	0.279	0.000	0.02			0.6	SURCHARGED
19.004	S37	35.218	1.270	0.000	0.63			98.6	SURCHARGED
26.000	PS2257	38.454	0.023	0.000	0.30			1.8	SURCHARGED
26.001	PS2256	38.446	0.077	0.000	0.98			7.2	SURCHARGED
27.000	PS1687	39.280	-0.100	0.000	0.00			0.0	OK
26.002	PS2255	38.203	0.073	0.000	1.15			10.3	SURCHARGED
26.003	PS2252	37.873	-0.097	0.000	0.27			10.3	OK
28.000	PS2887	38.756	-0.100	0.000	0.24			10.1	OK
26.004	S39	37.730	0.131	0.000	0.87			53.8	SURCHARGED
29.000	PS1566	37.407	-0.067	0.000	0.24			1.7	OK
29.001	PS1565	37.264	-0.066	0.000	0.25			3.9	OK
29.002	S41	37.013	0.348	0.000	0.87			45.9	SURCHARGED
19.005	S2709	35.182	1.349	0.000	1.54			225.7	SURCHARGED
30.000	PS1602	36.400	-0.100	0.000	0.00			0.0	OK
30.001	PS1601	36.321	-0.100	0.000	0.00			0.0	OK
30.002	PS3053	36.240	-0.100	0.000	0.00			0.0	OK
30.003	PS2819	36.176	-0.100	0.000	0.00			0.0	OK
31.000	PS2986	36.293	-0.100	0.000	0.00			0.0	OK
31.001	PS2987	36.163	-0.100	0.000	0.00			0.0	OK
30.004	PS1599	36.010	-0.150	0.000	0.00			0.0	OK
32.000	PS2026	36.147	-0.100	0.000	0.00			0.0	OK
32.001	PS2025	36.051	-0.069	0.000	0.22			3.5	OK
33.000	PS3050	35.522	-0.100	0.000	0.00			0.0	OK
32.002	PS2029	35.331	-0.127	0.000	0.06			3.5	OK
19.006	S43	34.855	1.146	0.000	2.55			240.9	SURCHARGED
34.000	PS1686	39.977	0.267	0.000	1.61			10.3	SURCHARGED
34.001	PS1685	39.410	-0.135	0.000	0.33			13.3	OK
35.000	PS1702	39.641	-0.048	0.000	0.53			4.2	OK
34.002	PS1701	39.345	-0.116	0.000	0.47			41.6	OK
36.000	PS1712	38.988	-0.100	0.000	0.00			0.0	OK
34.003	PS1700	38.396	-0.079	0.000	0.73			41.4	OK

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
34.004	PS1699	38.225	-0.165	0.000	0.41			51.1	OK

PN	US/MH Name	Level Exceeded
1.021	PS2716	
1.022	PS2917	
1.023	PS2918	
19.000	PS2064	
19.001	PS2063	
19.002	PS2062	
20.000	PS2072	2
20.001	PS2071	
21.000	PS2069	
20.002	PS2068	
22.000	PS2060	
19.003	S35	
23.000	PS2090	
23.001	S2723	
24.000	PS2084	1
24.001	PS2083	
23.002	S36	
25.000	PS2056	
19.004	S37	
26.000	PS2257	
26.001	PS2256	
27.000	PS1687	
26.002	PS2255	
26.003	PS2252	
28.000	PS2887	
26.004	S39	
29.000	PS1566	
29.001	PS1565	
29.002	S41	
19.005	S2709	
30.000	PS1602	
30.001	PS1601	
30.002	PS3053	
30.003	PS2819	
31.000	PS2986	
31.001	PS2987	
30.004	PS1599	
32.000	PS2026	
32.001	PS2025	
33.000	PS3050	
32.002	PS2029	
19.006	S43	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Level Exceeded
34.000	PS1686	
34.001	PS1685	
35.000	PS1702	
34.002	PS1701	
36.000	PS1712	
34.003	PS1700	
34.004	PS1699	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
37.000	PS1747	15 Summer	100	+40%					39.070
37.001	PS1725	15 Summer	100	+40%					38.960
38.000	PS1732	15 Summer	100	+40%					38.690
37.002	PS1727	15 Summer	100	+40%					38.548
34.005	S2722	15 Summer	100	+40%					37.900
39.000	PS1730	15 Summer	100	+40%					37.530
40.000	PS1717	15 Summer	100	+40%					37.690
34.006	S44	15 Summer	100	+40%					36.874
41.000	PS1611	15 Summer	100	+40%					37.420
41.001	PS1610	15 Summer	100	+40%					37.294
41.002	PS1609	15 Summer	100	+40%					37.116
42.000	PS1607	15 Summer	100	+40%					36.030
34.007	S45	15 Summer	100	+40%					35.627
19.007	S2714	15 Summer	100	+40%	100/15 Summer				34.676
43.000	PS1640	15 Summer	100	+40%					35.591
43.001	PS1639	15 Summer	100	+40%					35.480
43.002	PS1637	15 Summer	100	+40%					35.440
43.003	PS2828	15 Summer	100	+40%					35.287
44.000	PS1658	15 Summer	100	+40%					35.850
45.000	PS2824	15 Summer	100	+40%					35.530
43.004	PS2825	15 Summer	100	+40%					35.190
19.008	S2710	15 Summer	100	+40%	100/15 Summer				34.289
46.000	PS1773	15 Summer	100	+40%					35.161
46.001	PS1792	15 Summer	100	+40%					35.092
47.000	PS1798	15 Summer	100	+40%					34.252
47.001	PS1799	15 Summer	100	+40%					34.148
46.002	PS2715	15 Summer	100	+40%					33.866
48.000	PS2012	15 Summer	100	+40%					35.740
48.001	PS2011	15 Summer	100	+40%					34.425
49.000	PS2017	15 Summer	100	+40%					34.584
49.001	PS2016	15 Summer	100	+40%					34.572
48.002	PS2010	15 Summer	100	+40%					33.998
50.000	PS3058	15 Summer	100	+40%					33.625
50.001	PS3057	15 Summer	100	+40%					33.485
48.003	PS2007	15 Summer	100	+40%					33.494
19.009	S50	15 Winter	100	+40%					33.266
51.000	PS2003	15 Summer	100	+40%					34.066
51.001	PS2002	15 Summer	100	+40%	100/15 Summer				33.597
51.002	PS2001	15 Winter	100	+40%	100/15 Summer				32.882
52.000	PS1998	15 Winter	100	+40%	100/15 Summer				32.641
51.003	PS1997	15 Winter	100	+40%	100/15 Summer				32.586
53.000	PS2191	15 Summer	100	+40%	100/15 Summer				32.930
54.000	PS2197	15 Summer	100	+40%					33.073
54.001	PS3059	15 Summer	100	+40%					32.832
53.001	PS2190	15 Winter	100	+40%					32.536
19.010	S51	15 Winter	100	+40%	100/15 Summer				32.484
55.000	PS2185	15 Winter	100	+40%					32.418
56.000	PS2875	15 Summer	100	+40%					32.741
55.001	PS2876	15 Winter	100	+40%	100/15 Summer				32.425

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
37.000	PS1747	-0.100	0.000	0.00			0.0	OK	
37.001	PS1725	-0.036	0.000	0.73			5.6	OK	
38.000	PS1732	-0.100	0.000	0.00			0.0	OK	
37.002	PS1727	-0.072	0.000	0.53			15.5	OK	
34.005	S2722	-0.096	0.000	0.61			66.1	OK	
39.000	PS1730	-0.150	0.000	0.00			0.0	OK	
40.000	PS1717	-0.225	0.000	0.00			0.0	OK	
34.006	S44	-0.146	0.000	0.51			103.8	OK	
41.000	PS1611	-0.100	0.000	0.00			0.0	OK	
41.001	PS1610	-0.064	0.000	0.29			1.9	OK	
41.002	PS1609	-0.133	0.000	0.03			1.9	OK	
42.000	PS1607	-0.100	0.000	0.00			0.0	OK	
34.007	S45	-0.176	0.000	0.35			123.3	OK	
19.007	S2714	0.991	0.000	3.52			347.6	SURCHARGED	
43.000	PS1640	-0.100	0.000	0.00			0.0	OK	
43.001	PS1639	-0.100	0.000	0.00			0.0	OK	
43.002	PS1637	-0.100	0.000	0.00			0.0	OK	
43.003	PS2828	-0.100	0.000	0.00			0.0	OK	
44.000	PS1658	-0.100	0.000	0.00			0.0	OK	
45.000	PS2824	-0.100	0.000	0.00			0.0	OK	
43.004	PS2825	-0.150	0.000	0.00			0.0	OK	
19.008	S2710	0.631	0.000	1.85			415.1	SURCHARGED	
46.000	PS1773	-0.100	0.000	0.00			0.0	OK	
46.001	PS1792	-0.100	0.000	0.00			0.0	OK	
47.000	PS1798	-0.100	0.000	0.00			0.0	OK	
47.001	PS1799	-0.100	0.000	0.00			0.0	OK	
46.002	PS2715	-0.119	0.000	0.45			26.6	OK	
48.000	PS2012	-0.100	0.000	0.00			0.0	OK	
48.001	PS2011	-0.085	0.000	0.39			10.3	OK	
49.000	PS2017	-0.100	0.000	0.00			0.0	OK	
49.001	PS2016	-0.028	0.000	0.87			9.2	OK	
48.002	PS2010	-0.082	0.000	0.42			19.5	OK	
50.000	PS3058	-0.100	0.000	0.00			0.0	OK	
50.001	PS3057	-0.082	0.000	0.01			0.1	OK	
48.003	PS2007	-0.111	0.000	0.51			25.0	OK	
19.009	S50	-0.138	0.000	0.57			462.5	OK	
51.000	PS2003	-0.046	0.000	0.57			10.2	OK	
51.001	PS2002	0.265	0.000	1.21			13.3	FLOOD RISK	
51.002	PS2001	0.093	0.000	0.67			12.8	SURCHARGED	
52.000	PS1998	0.603	0.000	0.73			4.7	SURCHARGED	
51.003	PS1997	0.726	0.000	0.84			15.2	SURCHARGED	
53.000	PS2191	0.130	0.000	1.30			9.7	SURCHARGED	
54.000	PS2197	-0.100	0.000	0.00			0.0	OK	
54.001	PS3059	-0.051	0.000	0.49			6.1	OK	
53.001	PS2190	-0.070	0.000	0.20			14.7	OK	
19.010	S51	1.799	0.000	2.43			482.3	SURCHARGED	
55.000	PS2185	-0.071	0.000	0.01			0.1	OK	
56.000	PS2875	-0.009	0.000	0.88			9.7	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
55.001	PS2876	0.105	0.000	1.22			9.5	SURCHARGED	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
57.000	PS2179	15 Winter	100	+40%	100/15 Winter				32.274
55.002	PS2178	15 Winter	100	+40%	100/15 Summer				32.277
19.011	S2718	15 Winter	100	+40%	100/15 Summer				32.258
58.000	PS2885	15 Summer	100	+40%					32.404
58.001	PS1994	15 Summer	100	+40%					32.293
19.012	S53	15 Winter	100	+40%	100/15 Summer				32.020
59.000	PS1975	15 Summer	100	+40%	100/15 Summer				32.180
59.001	PS1974	15 Summer	100	+40%	100/15 Summer				32.155
60.000	PS1969	15 Winter	100	+40%					31.569
59.002	PS1968	15 Winter	100	+40%	100/15 Summer				31.590
61.000	PS2864	15 Winter	100	+40%	100/15 Summer				31.565
61.001	PS2865	15 Winter	100	+40%	100/15 Summer				31.568
61.002	PS1963	15 Winter	100	+40%	100/15 Summer				31.573
62.000	PS3032	15 Winter	100	+40%	100/15 Summer				31.559
61.003	PS1939	15 Winter	100	+40%	100/15 Summer				31.562
63.000	PS1935	15 Winter	100	+40%					31.517
64.000	PS1933	15 Winter	100	+40%					31.517
63.001	PS1932	15 Winter	100	+40%					31.516
19.013	S55	15 Winter	100	+40%	100/15 Summer				31.559
65.000	PS1550	15 Summer	100	+40%					39.202
65.001	PS1549	15 Summer	100	+40%					39.003
66.000	PS1553	15 Summer	100	+40%					39.374
65.002	S57	15 Summer	100	+40%					38.187
65.003	S58	15 Summer	100	+40%	100/15 Summer				37.934
67.000	PS1541	15 Summer	100	+40%					38.232
67.001	PS1540	15 Summer	100	+40%					37.878
65.004	S2713	15 Summer	100	+40%					37.033
65.005	S2719	15 Summer	100	+40%					36.718
68.000	PS2148	15 Summer	100	+40%					36.761
65.006	S60	15 Summer	100	+40%					36.209
69.000	PS2836	15 Summer	100	+40%					34.468
69.001	PS2129	15 Summer	100	+40%					34.369
69.002	PS2128	15 Summer	100	+40%					34.220
65.007	S62	15 Summer	100	+40%					33.723
70.000	PS2114	15 Summer	100	+40%					33.621
70.001	PS2838	15 Summer	100	+40%					33.491
70.002	PS2884	15 Summer	100	+40%					33.240
71.000	PS2105	15 Summer	100	+40%					32.900
70.003	PS2103	15 Summer	100	+40%					32.810
72.000	PS2100	15 Summer	100	+40%					32.192
70.004	PS2099	15 Summer	100	+40%					32.114
65.008	S63	15 Summer	100	+40%					31.564
73.000	PS1928	15 Winter	100	+40%	100/15 Summer				31.280
73.001	PS1930	15 Winter	100	+40%	100/15 Summer				31.281
19.014	S56	15 Winter	100	+40%	100/15 Summer				31.233
19.015	S2711	15 Winter	100	+40%	100/15 Summer				30.770
19.016	PS2921	15 Winter	100	+40%					30.211
19.017	PS2920	15 Winter	100	+40%					29.816
19.018	PS2919	15 Winter	100	+40%					29.203

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
57.000	PS2179	0.006	0.000	0.03			0.2	SURCHARGED	
55.002	PS2178	0.137	0.000	0.14			9.3	SURCHARGED	
19.011	S2718	1.605	0.000	2.24			493.5	SURCHARGED	
58.000	PS2885	-0.046	0.000	0.57			4.6	OK	
58.001	PS1994	-0.067	0.000	0.24			4.5	OK	
19.012	S53	1.407	0.000	1.75			534.4	SURCHARGED	
59.000	PS1975	0.350	0.000	0.29			3.9	SURCHARGED	
59.001	PS1974	0.995	0.000	1.36			25.8	SURCHARGED	
60.000	PS1969	-0.073	0.000	0.00			0.0	OK	
59.002	PS1968	0.846	0.000	0.37			26.3	SURCHARGED	
61.000	PS2864	0.175	0.000	0.06			0.4	SURCHARGED	
61.001	PS2865	0.266	0.000	0.24			1.2	SURCHARGED	
61.002	PS1963	0.303	0.000	0.34			3.3	SURCHARGED	
62.000	PS3032	0.109	0.000	0.02			0.3	SURCHARGED	
61.003	PS1939	0.592	0.000	0.15			4.5	SURCHARGED	
63.000	PS1935	-0.077	0.000	0.01			0.0	OK	
64.000	PS1933	-0.066	0.000	0.02			0.1	OK	
63.001	PS1932	-0.020	0.000	0.07			1.4	OK	
19.013	S55	1.089	0.000	1.84			569.9	FLOOD RISK	
65.000	PS1550	-0.100	0.000	0.00			0.0	OK	
65.001	PS1549	-0.100	0.000	0.00			0.0	OK	
66.000	PS1553	-0.100	0.000	0.00			0.0	OK	
65.002	S57	-0.016	0.000	0.83			24.6	OK	
65.003	S58	0.116	0.000	1.08			32.1	SURCHARGED	
67.000	PS1541	-0.026	0.000	0.89			8.8	FLOOD RISK	
67.001	PS1540	-0.052	0.000	0.45			8.8	OK	
65.004	S2713	-0.108	0.000	0.53			41.0	OK	
65.005	S2719	-0.121	0.000	0.44			41.0	OK	
68.000	PS2148	-0.100	0.000	0.00			0.0	OK	
65.006	S60	-0.162	0.000	0.43			109.7	OK	
69.000	PS2836	-0.100	0.000	0.00			0.0	OK	
69.001	PS2129	-0.100	0.000	0.00			0.0	OK	
69.002	PS2128	-0.100	0.000	0.00			0.0	OK	
65.007	S62	-0.231	0.000	0.31			135.5	OK	
70.000	PS2114	-0.100	0.000	0.00			0.0	OK	
70.001	PS2838	-0.100	0.000	0.00			0.0	OK	
70.002	PS2884	-0.100	0.000	0.00			0.0	OK	
71.000	PS2105	-0.100	0.000	0.00			0.0	OK	
70.003	PS2103	-0.150	0.000	0.00			0.0	OK	
72.000	PS2100	-0.100	0.000	0.00			0.0	OK	
70.004	PS2099	-0.116	0.000	0.11			4.6	OK	
65.008	S63	-0.207	0.000	0.41			169.3	OK	
73.000	PS1928	0.295	0.000	0.06			0.3	SURCHARGED	
73.001	PS1930	0.361	0.000	0.52			7.5	SURCHARGED	
19.014	S56	0.837	0.000	3.06			675.8	SURCHARGED	
19.015	S2711	0.415	0.000	3.60			685.2	SURCHARGED	
19.016	PS2921	-0.519	0.000	0.15			690.5	OK	
19.017	PS2920	-0.561	0.000	0.12			697.2	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
19.018	PS2919	-0.580	0.000	0.10			703.7	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 5

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
74.000	PS1876	15 Summer	100	+40%					29.476
74.001	PS1875	15 Summer	100	+40%					29.428
74.002	PS1874	15 Summer	100	+40%					29.301
75.000	PS1884	15 Summer	100	+40%					29.502
75.001	PS1883	15 Summer	100	+40%					29.320
74.003	PS1873	15 Winter	100	+40%					28.888
76.000	PS1898	15 Summer	100	+40%					30.279
76.001	PS1892	15 Summer	100	+40%					29.386
77.000	PS3078	15 Summer	100	+40%					29.428
74.004	PS3002	15 Winter	100	+40%	100/15 Summer				28.886
78.000	S69	15 Summer	100	+40%					28.510
1.024	S238	15 Winter	100	+40%	100/15 Winter				28.875
1.025	S239	15 Winter	100	+40%	100/15 Summer				28.284
1.026	S2717	15 Winter	100	+40%					27.271
1.027	S3063	15 Winter	100	+40%					26.205
1.028	S3064	15 Winter	100	+40%	100/15 Summer				25.407
1.029	S3065	15 Winter	100	+40%					24.610

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
74.000	PS1876	-0.100	0.000	0.00			0.0	OK	
74.001	PS1875	-0.100	0.000	0.00			0.0	OK	
74.002	PS1874	-0.100	0.000	0.00			0.0	OK	
75.000	PS1884	-0.100	0.000	0.00			0.0	OK	
75.001	PS1883	-0.071	0.000	0.19			1.9	OK	
74.003	PS1873	-0.112	0.000	0.09			1.8	OK	
76.000	PS1898	-0.100	0.000	0.00			0.0	OK	
76.001	PS1892	-0.100	0.000	0.00			0.0	OK	
77.000	PS3078	-0.064	0.000	0.28			4.1	OK	
74.004	PS3002	0.104	0.000	0.32			39.7	SURCHARGED	
78.000	S69	0.000	0.000	0.19			2.4	SURCHARGED*	
1.024	S238	0.000	0.000	0.87			976.2	SURCHARGED*	
1.025	S239	0.184	0.000	1.17			973.8	SURCHARGED	
1.026	S2717	-0.229	0.000	0.77			974.8	OK	
1.027	S3063	-0.295	0.000	0.61			975.3	OK	
1.028	S3064	0.516	0.000	2.66			974.8	SURCHARGED	
1.029	S3065	-0.240	0.000	0.74			973.7	OK	

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