



M-EC		Page 1
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Time Area Diagram for STORM.SWS

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.000	20-24	0.000	40-44	0.000	60-64	0.000	80-84	0.323	100-104	2.015
4-8	0.000	24-28	0.000	44-48	0.000	64-68	0.259	84-88	0.000	104-108	0.269
8-12	0.000	28-32	0.000	48-52	0.000	68-72	2.935	88-92	1.129		
12-16	0.000	32-36	0.000	52-56	0.000	72-76	4.788	92-96	3.233		
16-20	0.000	36-40	0.000	56-60	0.000	76-80	4.144	96-100	2.200		

Total Area Contributing (ha) = 21.296
















Total Pipe Volume (m<sup>3</sup>) = 9541.162

M-EC		Page 2
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

STORM SEWER DESIGN by the Modified Rational Method


Network Design Table for STORM.SWS

« - 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	21.995	0.146	150.7	0.100	5.00	0.0	0.600		o	300	Pipe/Conduit	
1.001	29.151	0.221	131.9	0.030	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.002	28.100	0.141	199.3	0.000	0.00	0.0	0.600		o	375	Pipe/Conduit	
1.003	55.044	0.499	110.3	0.249	0.00	0.0	0.600		o	375	Pipe/Conduit	
2.000	13.870	0.214	64.8	0.130	5.00	0.0	0.600		o	300	Pipe/Conduit	
2.001	22.292	0.248	89.9	0.147	0.00	0.0	0.600		o	300	Pipe/Conduit	
2.002	51.918	0.865	60.0	0.040	0.00	0.0	0.600		o	300	Pipe/Conduit	
2.003	10.449	0.905	11.5	0.080	0.00	0.0	0.600		o	300	Pipe/Conduit	
3.000	121.539	1.280	95.0	0.181	5.00	0.0	0.600		o	225	Pipe/Conduit	
3.001	24.248	0.162	149.7	0.000	0.00	0.0	0.600		o	300	Pipe/Conduit	
3.002	26.757	0.101	264.9	0.060	0.00	0.0	0.600		o	375	Pipe/Conduit	
3.003	30.427	0.122	249.4	0.220	0.00	0.0	0.600		o	450	Pipe/Conduit	
4.000	5.260	0.526	10.0	0.150	5.00	0.0	0.600		o	225	Pipe/Conduit	
3.004	36.199	0.207	174.9	0.000	0.00	0.0	0.600		o	525	Pipe/Conduit	
3.005	21.056	0.088	239.3	0.225	0.00	0.0	0.600		o	525	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	80.70	5.29	116.555	0.100	0.0	0.0	0.0	1.28	90.4	21.9
1.001	77.11	5.64	116.409	0.130	0.0	0.0	0.0	1.37	96.7	27.1
1.002	73.80	6.01	116.113	0.130	0.0	0.0	0.0	1.28	141.4	27.1
1.003	69.54	6.54	115.972	0.379	0.0	0.0	0.0	1.72	190.5	71.4
2.000	82.55	5.12	118.375	0.130	0.0	0.0	0.0	1.96	138.3	29.1
2.001	80.12	5.34	118.161	0.277	0.0	0.0	0.0	1.66	117.3	60.1
2.002	75.93	5.77	117.913	0.317	0.0	0.0	0.0	2.03	143.7	65.2
2.003	75.59	5.81	117.048	0.397	0.0	0.0	0.0	4.65	328.8	81.3
3.000	69.77	6.51	118.200	0.181	0.0	0.0	0.0	1.34	53.4	34.2
3.001	67.50	6.82	116.845	0.181	0.0	0.0	0.0	1.28	90.7	34.2
3.002	64.85	7.23	116.608	0.241	0.0	0.0	0.0	1.11	122.4	42.3
3.003	62.48	7.62	116.432	0.461	0.0	0.0	0.0	1.28	204.0	78.0
4.000	83.67	5.02	117.061	0.150	0.0	0.0	0.0	4.16	165.5	34.0
3.004	60.51	7.98	116.235	0.611	0.0	0.0	0.0	1.69	366.0	100.1
3.005	59.25	8.22	116.028	0.836	0.0	0.0	0.0	1.44	312.5	134.2

M-EC		Page 3
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k	n	HYD SECT	DIA (mm)	Section Type	Auto Design
3.006	5.194	0.022	236.1	0.021	0.00	0.0	0.600		o	600	Pipe/Conduit	
2.004	19.850	0.090	220.6	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	
2.005	31.307	0.174	179.9	0.174	0.00	0.0	0.600		o	600	Pipe/Conduit	
5.000	7.065	0.708	10.0	0.084	5.00	0.0	0.600		o	225	Pipe/Conduit	
2.006	27.569	0.172	160.3	0.063	0.00	0.0	0.600		o	600	Pipe/Conduit	
2.007	22.285	0.159	140.2	0.085	0.00	0.0	0.600		o	600	Pipe/Conduit	
1.004	5.167	0.061	84.7	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	
1.005	36.131	0.157	230.1	0.281	0.00	0.0	0.600		o	750	Pipe/Conduit	
6.000	27.311	0.237	115.2	0.121	5.00	0.0	0.600		o	225	Pipe/Conduit	
6.001	7.837	0.068	115.2	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
6.002	61.978	0.310	199.9	0.076	0.00	0.0	0.600		o	300	Pipe/Conduit	
6.003	8.199	0.059	139.0	0.072	0.00	0.0	0.600		o	300	Pipe/Conduit	
6.004	60.149	0.273	220.3	0.120	0.00	0.0	0.600		o	375	Pipe/Conduit	
6.005	10.565	0.353	29.9	0.000	0.00	0.0	0.600		o	375	Pipe/Conduit	
1.006	43.319	0.289	149.9	0.201	0.00	0.0	0.600		o	750	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)
3.006	58.98	8.28	115.865	0.857	0.0	0.0	0.0	1.58	446.9	136.9
2.004	57.99	8.48	115.843	1.254	0.0	0.0	0.0	1.64	462.5	196.9
2.005	56.65	8.77	115.753	1.428	0.0	0.0	0.0	1.81	512.4	219.1
5.000	83.58	5.03	116.662	0.084	0.0	0.0	0.0	4.17	165.7	19.0
2.006	55.59	9.01	115.579	1.575	0.0	0.0	0.0	1.92	543.1	237.1
2.007	54.83	9.19	115.407	1.660	0.0	0.0	0.0	2.06	581.1	246.5
1.004	54.69	9.22	115.248	2.039	0.0	0.0	0.0	2.65	748.5	302.0
1.005	53.37	9.55	115.037	2.320	0.0	0.0	0.0	1.84	813.1	335.3
6.000	79.78	5.37	116.705	0.121	0.0	0.0	0.0	1.22	48.4	26.1
6.001	78.69	5.48	116.468	0.121	0.0	0.0	0.0	1.22	48.4	26.1
6.002	70.50	6.41	116.325	0.197	0.0	0.0	0.0	1.11	78.3	37.6
6.003	69.72	6.52	116.015	0.269	0.0	0.0	0.0	1.33	94.1	50.8
6.004	64.15	7.34	115.881	0.389	0.0	0.0	0.0	1.22	134.4	67.6
6.005	63.83	7.39	115.608	0.389	0.0	0.0	0.0	3.32	367.0	67.6
1.006	52.17	9.86	114.880	2.910	0.0	0.0	0.0	2.28	1008.9	411.2

M-EC		Page 4
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
7.000	24.757	0.165	150.0	0.080	5.00	0.0	0.600		o	225	Pipe/Conduit	
7.001	49.441	2.754	18.0	0.100	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.007	44.138	0.236	187.0	0.037	0.00	0.0	0.600		o	750	Pipe/Conduit	
8.000	26.962	0.172	156.8	0.054	5.00	0.0	0.600		o	225	Pipe/Conduit	
8.001	21.661	0.256	84.6	0.008	0.00	0.0	0.600		o	300	Pipe/Conduit	
8.002	20.617	1.349	15.3	0.028	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.008	11.615	0.019	611.3	0.000	0.00	0.0	0.600		o	900	Pipe/Conduit	
9.000	51.226	0.321	159.6	0.197	5.00	0.0	0.600		o	300	Pipe/Conduit	
10.000	14.429	0.064	225.5	0.580	5.00	0.0	0.600		o	300	Pipe/Conduit	
9.001	46.382	0.386	120.2	0.077	0.00	0.0	0.600		o	375	Pipe/Conduit	
9.002	53.530	3.252	16.5	0.229	0.00	0.0	0.600		o	375	Pipe/Conduit	
9.003	7.542	0.206	36.6	0.029	0.00	0.0	0.600		o	450	Pipe/Conduit	
1.009	36.140	0.084	430.2	0.070	0.00	0.0	0.600		o	900	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)
7.000	79.64	5.39	118.035	0.080	0.0	0.0	0.0	1.07	42.3	17.3
7.001	77.01	5.65	117.870	0.180	0.0	0.0	0.0	3.10	123.4	37.5
1.007	50.88	10.22	114.591	3.127	0.0	0.0	0.0	2.04	902.6	430.9
8.000	79.19	5.43	116.631	0.054	0.0	0.0	0.0	1.04	41.4	11.6
8.001	77.11	5.64	116.384	0.062	0.0	0.0	0.0	1.71	120.9	12.9
8.002	76.31	5.73	116.128	0.090	0.0	0.0	0.0	4.04	285.7	18.6
1.008	50.35	10.38	114.179	3.217	0.0	0.0	0.0	1.26	801.5	438.7
9.000	76.68	5.69	119.000	0.197	0.0	0.0	0.0	1.24	87.8	40.9
10.000	81.31	5.23	118.668	0.580	0.0	0.0	0.0	1.04	73.7<	127.7
9.001	72.55	6.16	118.604	0.854	0.0	0.0	0.0	1.65	182.4	167.8
9.002	70.96	6.35	118.143	1.083	0.0	0.0	0.0	4.48	495.3	208.1
9.003	70.67	6.39	114.816	1.112	0.0	0.0	0.0	3.37	535.7	212.8
1.009	49.03	10.78	114.160	4.399	0.0	0.0	0.0	1.50	956.9	584.2

M-EC		Page 5
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
1.010	11.212	0.022	509.6	0.070	0.00	0.0	0.600		o	900	Pipe/Conduit	
1.011	19.978	0.033	605.4	0.030	0.00	0.0	0.600		o	900	Pipe/Conduit	
1.012	19.835	0.051	388.9	0.030	0.00	0.0	0.600		o	1050	Pipe/Conduit	
1.013	14.784	0.023	642.8	0.000	0.00	0.0	0.600		o	1050	Pipe/Conduit	
1.014	23.987	0.052	461.3	0.000	0.00	0.0	0.600		o	1050	Pipe/Conduit	
11.000	57.844	2.181	26.5	0.244	5.00	0.0	0.600		o	225	Pipe/Conduit	
11.001	7.900	0.790	10.0	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.015	53.423	0.103	518.7	0.000	0.00	0.0	0.600		o	1200	Pipe/Conduit	
1.016	49.931	0.087	573.9	0.000	0.00	0.0	0.600		o	1200	Pipe/Conduit	
12.000	27.630	0.165	167.5	0.081	5.00	0.0	0.600		o	225	Pipe/Conduit	
12.001	44.387	0.266	166.9	0.036	0.00	0.0	0.600		o	225	Pipe/Conduit	
12.002	12.161	0.073	166.6	0.116	0.00	0.0	0.600		o	225	Pipe/Conduit	
12.003	9.111	0.055	165.7	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
13.000	37.003	0.222	166.7	0.140	5.00	0.0	0.600		o	225	Pipe/Conduit	
13.001	28.370	0.170	166.9	0.112	0.00	0.0	0.600		o	225	Pipe/Conduit	
13.002	30.695	0.656	46.8	0.066	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)
1.010	48.61	10.91	114.076	4.469	0.0	0.0	0.0	1.38	878.6	588.3
1.011	47.80	11.18	114.054	4.499	0.0	0.0	0.0	1.27	805.4	588.3
1.012	47.24	11.37	113.871	4.529	0.0	0.0	0.0	1.74	1507.8	588.3
1.013	46.72	11.55	113.820	4.529	0.0	0.0	0.0	1.35	1170.5	588.3
1.014	46.02	11.80	113.797	4.529	0.0	0.0	0.0	1.60	1383.6	588.3
11.000	79.74	5.38	117.616	0.244	0.0	0.0	0.0	2.55	101.4	52.7
11.001	79.42	5.41	115.435	0.244	0.0	0.0	0.0	4.16	165.5	52.7
1.015	44.59	12.34	113.670	4.773	0.0	0.0	0.0	1.64	1850.0	588.3
1.016	43.29	12.88	113.567	4.773	0.0	0.0	0.0	1.55	1758.0	588.3
12.000	78.93	5.46	117.576	0.081	0.0	0.0	0.0	1.01	40.1	17.3
12.001	72.27	6.19	117.411	0.117	0.0	0.0	0.0	1.01	40.1	22.9
12.002	70.67	6.39	117.145	0.233	0.0	0.0	0.0	1.01	40.2	44.6
12.003	69.54	6.54	117.072	0.233	0.0	0.0	0.0	1.01	40.3	44.6
13.000	77.41	5.61	118.065	0.140	0.0	0.0	0.0	1.01	40.2	29.4
13.001	73.19	6.08	117.843	0.252	0.0	0.0	0.0	1.01	40.1	50.0
13.002	71.02	6.35	117.673	0.318	0.0	0.0	0.0	1.92	76.2	61.2

M-EC		Page 6
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
12.004	23.070	0.074	311.8	0.062	0.00	0.0	0.600		o	375	Pipe/Conduit	
12.005	14.979	0.048	312.1	0.059	0.00	0.0	0.600		o	375	Pipe/Conduit	
12.006	17.793	0.171	104.1	0.023	0.00	0.0	0.600		o	375	Pipe/Conduit	
1.017	36.870	0.087	423.8	0.000	0.00	0.0	0.600		o	1200	Pipe/Conduit	
1.018	26.881	0.265	101.4	0.000	0.00	0.0	0.600		o	1200	Pipe/Conduit	
14.000	26.224	0.157	167.0	0.049	5.00	0.0	0.600		o	225	Pipe/Conduit	
14.001	12.189	0.973	12.5	0.043	0.00	0.0	0.600		o	225	Pipe/Conduit	
14.002	3.141	0.314	10.0	0.092	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.019	42.661	0.070	609.4	0.000	0.00	0.0	0.600		o	1200	Pipe/Conduit	
15.000	41.137	0.183	225.0	0.198	5.00	0.0	0.600		o	300	Pipe/Conduit	
16.000	19.028	0.307	62.0	0.063	5.00	0.0	0.600		o	225	Pipe/Conduit	
16.001	11.647	0.188	62.0	0.004	0.00	0.0	0.600		o	225	Pipe/Conduit	
16.002	32.247	0.519	62.1	0.055	0.00	0.0	0.600		o	300	Pipe/Conduit	
15.001	32.039	0.142	225.6	0.106	0.00	0.0	0.600		o	375	Pipe/Conduit	
15.002	22.247	0.099	224.7	0.055	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)
12.004	66.87	6.92	116.867	0.613	0.0	0.0	0.0	1.02	112.7	111.0
12.005	65.26	7.16	116.793	0.672	0.0	0.0	0.0	1.02	112.7	118.8
12.006	64.22	7.33	116.745	0.695	0.0	0.0	0.0	1.78	196.2	120.9
1.017	42.51	13.22	113.467	5.468	0.0	0.0	0.0	1.81	2048.1	629.5
1.018	42.24	13.34	113.393	5.468	0.0	0.0	0.0	3.71	4201.5	629.5
14.000	79.17	5.43	117.184	0.049	0.0	0.0	0.0	1.01	40.1	10.5
14.001	78.62	5.49	117.027	0.092	0.0	0.0	0.0	3.72	147.8	19.6
14.002	78.50	5.50	116.054	0.184	0.0	0.0	0.0	4.16	165.5	39.1
1.019	41.23	13.81	113.128	5.652	0.0	0.0	0.0	1.51	1705.6	631.0
15.000	76.97	5.66	117.069	0.198	0.0	0.0	0.0	1.04	73.8	41.3
16.000	81.75	5.19	117.989	0.063	0.0	0.0	0.0	1.66	66.2	13.9
16.001	80.48	5.31	117.682	0.067	0.0	0.0	0.0	1.66	66.2	14.6
16.002	77.75	5.58	117.419	0.122	0.0	0.0	0.0	2.00	141.2	25.7
15.001	73.01	6.10	116.811	0.426	0.0	0.0	0.0	1.20	132.8	84.2
15.002	70.54	6.41	116.669	0.481	0.0	0.0	0.0	1.20	133.0	91.9

M-EC		Page 7
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
17.000	28.085	0.187	150.2	0.017	5.00	0.0	0.600		o	300	Pipe/Conduit	
17.001	30.632	0.177	173.1	0.096	0.00	0.0	0.600		o	300	Pipe/Conduit	
17.002	16.440	0.275	59.8	0.103	0.00	0.0	0.600		o	525	Pipe/Conduit	
15.003	38.494	0.128	300.7	0.088	0.00	0.0	0.600		o	525	Pipe/Conduit	
15.004	26.832	0.089	301.5	0.164	0.00	0.0	0.600		o	600	Pipe/Conduit	
15.005	16.779	0.054	310.7	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	
15.006	21.868	0.076	287.7	0.155	0.00	0.0	0.600		o	600	Pipe/Conduit	
18.000	17.917	0.124	144.5	0.040	5.00	0.0	0.600		o	225	Pipe/Conduit	
18.001	13.309	0.044	300.0	0.052	0.00	0.0	0.600		o	300	Pipe/Conduit	
18.002	25.393	0.053	479.1	0.028	0.00	0.0	0.600		o	450	Pipe/Conduit	
19.000	26.382	0.264	99.9	0.026	5.00	0.0	0.600		o	225	Pipe/Conduit	
19.001	17.462	0.480	36.4	0.048	0.00	0.0	0.600		o	225	Pipe/Conduit	
18.003	22.357	0.050	447.1	0.024	0.00	0.0	0.600		o	450	Pipe/Conduit	
20.000	23.355	0.732	31.9	0.086	5.00	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)
17.000	79.87	5.37	117.284	0.017	0.0	0.0	0.0	1.28	90.5	3.7
17.001	75.69	5.79	117.097	0.113	0.0	0.0	0.0	1.19	84.3	23.2
17.002	74.84	5.89	116.695	0.216	0.0	0.0	0.0	2.90	628.0	43.8
15.003	66.93	6.91	116.420	0.785	0.0	0.0	0.0	1.29	278.5	142.3
15.004	64.84	7.23	116.217	0.949	0.0	0.0	0.0	1.40	395.1	166.7
15.005	63.60	7.43	116.128	0.949	0.0	0.0	0.0	1.38	389.1	166.7
15.006	62.12	7.69	116.074	1.104	0.0	0.0	0.0	1.43	404.5	185.7
18.000	80.83	5.28	116.746	0.040	0.0	0.0	0.0	1.09	43.2	8.8
18.001	78.29	5.52	116.547	0.092	0.0	0.0	0.0	0.90	63.8	19.5
18.002	74.04	5.98	116.353	0.120	0.0	0.0	0.0	0.92	146.7	24.1
19.000	80.18	5.34	117.269	0.026	0.0	0.0	0.0	1.31	52.0	5.6
19.001	78.80	5.47	117.005	0.074	0.0	0.0	0.0	2.18	86.5	15.8
18.003	70.83	6.37	116.300	0.218	0.0	0.0	0.0	0.95	151.9	41.8
20.000	82.00	5.17	117.207	0.086	0.0	0.0	0.0	2.32	92.4	19.1

M-EC		Page 8
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

STORM SEWER DESIGN by the Modified Rational Method


Network Design Table for STORM.SWS

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
18.004	32.097	0.055	583.6	0.073	0.00	0.0	0.600		o	525	Pipe/Conduit	
18.005	21.005	0.047	446.9	0.054	0.00	0.0	0.600		o	525	Pipe/Conduit	
15.007	67.776	0.144	470.7	0.069	0.00	0.0	0.600		o	600	Pipe/Conduit	
15.008	22.848	0.043	531.3	0.086	0.00	0.0	0.600		o	600	Pipe/Conduit	
15.009	12.841	0.026	493.9	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	
15.010	50.928	0.102	499.3	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	
15.011	92.084	0.184	500.5	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	
15.012	66.502	0.133	500.0	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	
21.000	48.953	0.422	116.0	0.100	5.00	0.0	0.600		o	225	Pipe/Conduit	
21.001	60.995	0.852	71.6	0.050	0.00	0.0	0.600		o	225	Pipe/Conduit	
22.000	16.948	0.086	197.1	0.007	5.00	0.0	0.600		o	225	Pipe/Conduit	
22.001	13.051	0.065	200.8	0.039	0.00	0.0	0.600		o	225	Pipe/Conduit	
22.002	42.264	0.669	63.2	0.093	0.00	0.0	0.600		o	225	Pipe/Conduit	
23.000	17.745	0.130	136.5	0.079	5.00	0.0	0.600		o	300	Pipe/Conduit	
23.001	23.421	0.248	94.4	0.017	0.00	0.0	0.600		o	300	Pipe/Conduit	
22.003	7.058	0.067	104.9	0.074	0.00	0.0	0.600		o	300	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)
18.004	66.64	6.95	116.175	0.377	0.0	0.0	0.0	0.92	199.2	68.0
18.005	64.49	7.28	116.120	0.431	0.0	0.0	0.0	1.05	228.0	75.3
15.007	56.96	8.70	115.998	1.604	0.0	0.0	0.0	1.12	315.5	247.5
15.008	55.36	9.06	115.854	1.690	0.0	0.0	0.0	1.05	296.7	253.4
15.009	54.53	9.26	115.811	1.690	0.0	0.0	0.0	1.09	307.9	253.4
15.010	51.52	10.04	115.785	1.690	0.0	0.0	0.0	1.08	306.2	253.4
15.011	46.97	11.46	115.683	1.690	0.0	0.0	0.0	1.08	305.8	253.4
15.012	44.24	12.48	115.499	1.690	0.0	0.0	0.0	1.08	306.0	253.4
21.000	76.82	5.67	117.064	0.100	0.0	0.0	0.0	1.21	48.2	20.8
21.001	71.15	6.33	116.642	0.150	0.0	0.0	0.0	1.55	61.5	28.9
22.000	80.51	5.30	117.081	0.007	0.0	0.0	0.0	0.93	36.9	1.5
22.001	78.09	5.54	116.995	0.046	0.0	0.0	0.0	0.92	36.5	9.7
22.002	74.14	5.97	116.936	0.139	0.0	0.0	0.0	1.65	65.5	27.9
23.000	81.42	5.22	116.577	0.079	0.0	0.0	0.0	1.34	95.0	17.4
23.001	78.89	5.46	116.442	0.096	0.0	0.0	0.0	1.62	114.4	20.5
22.003	73.48	6.05	116.194	0.309	0.0	0.0	0.0	1.54	108.5	61.5



M-EC		Page 9
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
24.000	37.519	0.272	138.2	0.135	5.00	0.0	0.600		o	225	Pipe/Conduit	
24.001	10.832	0.042	257.9	0.043	0.00	0.0	0.600		o	225	Pipe/Conduit	
24.002	18.385	0.324	56.7	0.031	0.00	0.0	0.600		o	300	Pipe/Conduit	
22.004	21.619	0.104	207.3	0.037	0.00	0.0	0.600		o	450	Pipe/Conduit	
22.005	21.418	0.071	301.7	0.079	0.00	0.0	0.600		o	450	Pipe/Conduit	
25.000	27.985	0.090	310.7	0.094	5.00	0.0	0.600		o	225	Pipe/Conduit	
25.001	32.368	0.512	63.2	0.116	0.00	0.0	0.600		o	225	Pipe/Conduit	
22.006	20.202	0.067	301.5	0.041	0.00	0.0	0.600		o	450	Pipe/Conduit	
22.007	14.239	0.047	303.0	0.000	0.00	0.0	0.600		o	600	Pipe/Conduit	
22.008	28.880	0.096	300.8	0.060	0.00	0.0	0.600		o	750	Pipe/Conduit	
22.009	21.849	0.029	753.4	0.000	0.00	0.0	0.600		o	750	Pipe/Conduit	
21.002	45.188	0.269	168.0	0.000	0.00	0.0	0.600		o	750	Pipe/Conduit	
1.020	6.998	0.014	500.0	0.000	0.00	0.0	0.600		o	375	Pipe/Conduit	
1.021	65.592	0.131	500.0	0.000	0.00	0.0	0.600		ooo	375	Triple Pipe	
1.022	94.236	0.188	501.3	0.000	0.00	0.0	0.600		ooo	375	Triple Pipe	















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)
24.000	77.88	5.56	116.854	0.135	0.0	0.0	0.0	1.11	44.2	28.5
24.001	75.76	5.79	116.557	0.178	0.0	0.0	0.0	0.81	32.2<	36.5
24.002	74.45	5.93	116.440	0.209	0.0	0.0	0.0	2.09	147.8	42.1
22.004	71.38	6.30	115.974	0.555	0.0	0.0	0.0	1.41	224.0	107.3
22.005	69.05	6.61	115.878	0.634	0.0	0.0	0.0	1.17	185.3	118.6
25.000	77.20	5.63	116.661	0.094	0.0	0.0	0.0	0.74	29.3	19.7
25.001	74.20	5.96	116.549	0.210	0.0	0.0	0.0	1.65	65.5	42.2
22.006	67.01	6.90	115.812	0.885	0.0	0.0	0.0	1.17	185.4	160.6
22.007	65.88	7.07	115.606	0.885	0.0	0.0	0.0	1.39	394.1	160.6
22.008	63.99	7.37	115.409	0.945	0.0	0.0	0.0	1.61	710.5	163.8
22.009	61.89	7.73	115.313	0.945	0.0	0.0	0.0	1.01	446.9	163.8
21.002	60.00	8.07	115.265	1.095	0.0	0.0	0.0	2.16	952.7	177.9
1.020	40.92	13.95	113.179	8.437	0.0	0.0	0.0	0.80	88.7<	935.1
1.021	38.35	15.31	113.170	8.437	0.0	0.0	0.0	0.80	266.2<	935.1
1.022	35.25	17.27	113.034	8.437	0.0	0.0	0.0	0.80	265.9<	935.1

M-EC		Page 10
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
1.023	44.393	0.089	498.8	0.000	0.00	0.0	0.600		ooo	375	Triple Pipe	
26.000	38.089	0.331	115.1	0.184	5.00	0.0	0.600		o	675	Pipe/Conduit	
26.001	27.675	0.359	77.1	0.034	0.00	0.0	0.600		o	675	Pipe/Conduit	
27.000	21.118	0.537	39.3	0.105	5.00	0.0	0.600		o	300	Pipe/Conduit	
27.001	12.672	0.031	408.8	0.013	0.00	0.0	0.600		o	525	Pipe/Conduit	
26.002	21.799	0.086	253.5	0.000	0.00	0.0	0.600		o	750	Pipe/Conduit	
28.000	27.255	0.455	59.9	0.214	5.00	0.0	0.600		o	300	Pipe/Conduit	
26.003	19.759	0.098	201.6	0.041	0.00	0.0	0.600		o	825	Pipe/Conduit	
26.004	13.801	0.061	226.2	0.082	0.00	0.0	0.600		o	825	Pipe/Conduit	
26.005	30.846	0.137	225.2	0.000	0.00	0.0	0.600		o	825	Pipe/Conduit	
29.000	17.850	0.107	166.8	0.098	5.00	0.0	0.600		o	225	Pipe/Conduit	
29.001	26.252	0.110	238.7	0.064	0.00	0.0	0.600		o	300	Pipe/Conduit	
29.002	5.621	0.482	11.7	0.055	0.00	0.0	0.600		o	300	Pipe/Conduit	
26.006	25.081	0.111	226.0	0.008	0.00	0.0	0.600		o	825	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)
1.023	33.99	18.19	112.846	8.437	0.0	0.0	0.0	0.80	266.6	935.1
26.000	80.99	5.26	119.263	0.184	0.0	0.0	0.0	2.44	874.1	40.4
26.001	79.37	5.41	118.932	0.218	0.0	0.0	0.0	2.99	1068.9	46.9
27.000	82.31	5.14	119.516	0.105	0.0	0.0	0.0	2.51	177.8	23.4
27.001	80.23	5.33	118.754	0.118	0.0	0.0	0.0	1.10	238.5	25.6
26.002	77.31	5.62	118.498	0.336	0.0	0.0	0.0	1.75	774.5	70.3
28.000	81.39	5.22	119.317	0.214	0.0	0.0	0.0	2.04	143.9	47.2
26.003	75.83	5.78	118.337	0.591	0.0	0.0	0.0	2.09	1115.8	121.4
26.004	74.77	5.90	118.239	0.673	0.0	0.0	0.0	1.97	1052.9	136.3
26.005	72.55	6.16	118.178	0.673	0.0	0.0	0.0	1.97	1055.5	136.3
29.000	80.62	5.29	119.340	0.098	0.0	0.0	0.0	1.01	40.1	21.4
29.001	76.31	5.73	119.158	0.162	0.0	0.0	0.0	1.01	71.6	33.5
29.002	76.13	5.75	119.048	0.217	0.0	0.0	0.0	4.63	327.2	44.7
26.006	70.85	6.37	118.041	0.898	0.0	0.0	0.0	1.97	1053.6	172.3

M-EC		Page 11
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
26.007	20.759	0.144	144.2	0.027	0.00	0.0	0.600		o	825	Pipe/Conduit	
30.000	37.630	0.251	149.9	0.143	5.00	0.0	0.600		o	300	Pipe/Conduit	
30.001	11.922	0.089	134.0	0.051	0.00	0.0	0.600		o	300	Pipe/Conduit	
30.002	19.297	0.118	163.5	0.142	0.00	0.0	0.600		o	300	Pipe/Conduit	
30.003	20.172	0.312	64.7	0.059	0.00	0.0	0.600		o	375	Pipe/Conduit	
30.004	13.634	0.060	227.2	0.025	0.00	0.0	0.600		o	375	Pipe/Conduit	
26.008	42.291	0.178	237.6	0.078	0.00	0.0	0.600		o	825	Pipe/Conduit	
26.009	88.922	0.395	225.1	0.000	0.00	0.0	0.600		o	825	Pipe/Conduit	
26.010	69.055	0.450	153.5	0.000	0.00	0.0	0.600		o	825	Pipe/Conduit	
31.000	16.270	0.032	508.4	0.912	5.00	0.0	0.600		o	825	Pipe/Conduit	
32.000	19.418	0.212	91.6	0.057	5.00	0.0	0.600		o	225	Pipe/Conduit	
32.001	30.994	0.461	67.2	0.068	0.00	0.0	0.600		o	225	Pipe/Conduit	
33.000	29.187	0.123	237.3	0.208	5.00	0.0	0.600		o	300	Pipe/Conduit	
32.002	42.766	0.148	289.0	0.026	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)
26.007	69.78	6.51	117.930	0.925	0.0	0.0	0.0	2.47	1320.8	174.8
30.000	78.61	5.49	119.141	0.143	0.0	0.0	0.0	1.28	90.6	30.4
30.001	77.17	5.64	118.890	0.194	0.0	0.0	0.0	1.36	95.9	40.5
30.002	74.76	5.90	118.801	0.336	0.0	0.0	0.0	1.23	86.7	68.0
30.003	73.46	6.05	118.608	0.395	0.0	0.0	0.0	2.26	249.2	78.6
30.004	71.89	6.24	118.296	0.420	0.0	0.0	0.0	1.20	132.3	81.8
26.008	67.15	6.88	117.786	1.423	0.0	0.0	0.0	1.92	1027.3	258.8
26.009	62.46	7.63	117.608	1.423	0.0	0.0	0.0	1.97	1055.6	258.8
26.010	59.84	8.11	117.213	1.423	0.0	0.0	0.0	2.39	1280.0	258.8
31.000	81.56	5.21	116.795	0.912	0.0	0.0	0.0	1.31	700.2	201.5
32.000	81.24	5.24	120.036	0.057	0.0	0.0	0.0	1.37	54.3	12.5
32.001	77.90	5.56	119.824	0.125	0.0	0.0	0.0	1.60	63.5	26.4
33.000	78.71	5.48	119.411	0.208	0.0	0.0	0.0	1.02	71.8	44.3
32.002	71.93	6.23	119.213	0.359	0.0	0.0	0.0	1.06	117.2	69.9

M-EC		Page 12
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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	22.375	0.267	83.8	0.078	5.00	0.0	0.600		o	225	Pipe/Conduit	
35.000	26.915	0.198	135.9	0.055	5.00	0.0	0.600		o	225	Pipe/Conduit	
32.003	58.018	0.457	127.0	0.035	0.00	0.0	0.600		o	375	Pipe/Conduit	
32.004	19.827	0.132	150.2	0.123	0.00	0.0	0.600		o	450	Pipe/Conduit	
32.005	7.578	0.050	151.6	0.044	0.00	0.0	0.600		o	450	Pipe/Conduit	
32.006	9.050	0.060	150.8	0.008	0.00	0.0	0.600		o	450	Pipe/Conduit	
36.000	52.197	0.981	53.2	0.207	5.00	0.0	0.600		o	225	Pipe/Conduit	
32.007	10.550	0.021	502.4	0.027	0.00	0.0	0.600		o	600	Pipe/Conduit	
37.000	35.882	0.215	166.9	0.079	5.00	0.0	0.600		o	225	Pipe/Conduit	
37.001	48.729	0.205	237.7	0.079	0.00	0.0	0.600		o	300	Pipe/Conduit	
37.002	48.936	0.206	237.6	0.066	0.00	0.0	0.600		o	300	Pipe/Conduit	
37.003	17.718	0.074	239.4	0.068	0.00	0.0	0.600		o	375	Pipe/Conduit	
37.004	35.930	0.488	73.6	0.049	0.00	0.0	0.600		o	375	Pipe/Conduit	
37.005	38.240	0.598	63.9	0.046	0.00	0.0	0.600		o	375	Pipe/Conduit	
32.008	42.626	0.085	501.5	0.077	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)
34.000	80.98	5.26	119.482	0.078	0.0	0.0	0.0	1.43	56.8	17.1
35.000	79.51	5.40	119.413	0.055	0.0	0.0	0.0	1.12	44.5	11.8
32.003	67.44	6.83	119.065	0.527	0.0	0.0	0.0	1.61	177.5	96.2
32.004	66.09	7.03	118.533	0.650	0.0	0.0	0.0	1.66	263.5	116.3
32.005	65.59	7.11	118.401	0.694	0.0	0.0	0.0	1.65	262.3	123.3
32.006	65.01	7.20	118.351	0.702	0.0	0.0	0.0	1.65	262.9	123.6
36.000	78.66	5.48	119.496	0.207	0.0	0.0	0.0	1.80	71.5	44.1
32.007	64.00	7.36	117.121	0.936	0.0	0.0	0.0	1.08	305.3	162.2
37.000	77.59	5.59	119.261	0.079	0.0	0.0	0.0	1.01	40.1	16.6
37.001	70.66	6.39	118.971	0.158	0.0	0.0	0.0	1.02	71.8	30.2
37.002	65.05	7.20	118.766	0.224	0.0	0.0	0.0	1.02	71.8	39.5
37.003	63.49	7.45	118.485	0.292	0.0	0.0	0.0	1.17	128.8	50.2
37.004	61.86	7.73	118.411	0.341	0.0	0.0	0.0	2.11	233.5	57.1
37.005	60.33	8.01	117.923	0.387	0.0	0.0	0.0	2.27	250.6	63.2
32.008	57.31	8.62	117.025	1.400	0.0	0.0	0.0	1.16	416.4	217.3

M-EC		Page 13
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k	n	HYD SECT	DIA (mm)	Section Type	Auto Design
38.000	19.155	0.860	22.3	0.102	5.00	0.0	0.600		o	225	Pipe/Conduit	
32.009	34.074	0.068	501.1	0.045	0.00	0.0	0.600		o	750	Pipe/Conduit	
32.010	25.587	0.051	501.7	0.058	0.00	0.0	0.600		o	750	Pipe/Conduit	
32.011	17.550	0.035	501.4	0.073	0.00	0.0	0.600		o	750	Pipe/Conduit	
26.011	75.176	0.568	132.4	0.000	0.00	0.0	0.600		o	1050	Pipe/Conduit	
26.012	28.696	0.291	98.6	0.000	0.00	0.0	0.600		o	1050	Pipe/Conduit	
26.013	69.020	0.068	1015.0	0.000	0.00	0.0	0.600		o	1050	Pipe/Conduit	
1.024	100.279	0.206	486.8	0.000	0.00	0.0	0.600		ooo	375	Triple Pipe	
1.025	65.979	0.137	481.6	0.000	0.00	0.0	0.600		ooo	375	Triple Pipe	
1.026	54.354	0.706	77.0	0.000	0.00	0.0	0.600		ooo	375	Triple Pipe	
39.000	33.202	0.414	80.2	0.044	5.00	0.0	0.600		o	525	Pipe/Conduit	
39.001	31.189	0.432	72.2	0.078	0.00	0.0	0.600		o	525	Pipe/Conduit	
39.002	21.572	0.193	111.8	0.029	0.00	0.0	0.600		o	675	Pipe/Conduit	
40.000	11.475	0.067	171.3	0.051	10.00	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)
38.000	82.59	5.11	119.225	0.102	0.0	0.0	0.0	2.78	110.7	22.8
32.009	55.28	9.08	116.865	1.547	0.0	0.0	0.0	1.24	549.3	231.6
32.010	53.86	9.42	116.797	1.605	0.0	0.0	0.0	1.24	548.9	234.1
32.011	52.94	9.66	116.745	1.678	0.0	0.0	0.0	1.24	549.1	240.6
26.011	51.39	10.08	116.538	4.013	0.0	0.0	0.0	2.99	2592.6	558.5
26.012	50.90	10.21	115.970	4.013	0.0	0.0	0.0	3.47	3005.3	558.5
26.013	47.47	11.29	115.679	4.013	0.0	0.0	0.0	1.07	929.3	558.5
1.024	31.55	20.24	112.757	12.450	0.0	0.0	0.0	0.81	269.9<	1063.6
1.025	30.16	21.59	112.551	12.450	0.0	0.0	0.0	0.82	271.3<	1063.6
1.026	29.74	22.02	112.414	12.450	0.0	0.0	0.0	2.07	684.8<	1063.6
39.000	81.41	5.22	121.648	0.044	0.0	0.0	0.0	2.50	541.8	9.7
39.001	79.33	5.42	121.234	0.122	0.0	0.0	0.0	2.64	571.2	26.2
39.002	77.88	5.56	120.652	0.151	0.0	0.0	0.0	2.48	886.9	31.8
40.000	50.98	10.19	120.976	0.051	0.0	0.0	0.0	1.00	39.6	7.0

M-EC		Page 14
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
41.000	21.555	0.631	34.2	0.070	5.00	0.0	0.600		o	150	Pipe/Conduit	
41.001	9.170	0.040	229.3	0.055	0.00	0.0	0.600		o	375	Pipe/Conduit	
39.003	25.625	0.229	111.9	0.023	0.00	0.0	0.600		o	675	Pipe/Conduit	
42.000	9.355	0.041	228.2	0.028	10.00	0.0	0.600		o	300	Pipe/Conduit	
39.004	17.500	0.070	250.0	0.065	0.00	0.0	0.600		o	750	Pipe/Conduit	
39.005	37.636	0.165	228.1	0.000	0.00	0.0	0.600		o	750	Pipe/Conduit	
43.000	28.087	0.937	30.0	0.091	5.00	0.0	0.600		o	150	Pipe/Conduit	
43.001	6.882	0.022	312.8	0.056	0.00	0.0	0.600		o	375	Pipe/Conduit	
39.006	33.426	0.145	230.5	0.044	0.00	0.0	0.600		o	750	Pipe/Conduit	
44.000	15.415	0.038	410.0	0.095	5.00	0.0	0.600		o	450	Pipe/Conduit	
44.001	17.703	0.043	410.0	0.025	0.00	0.0	0.600		o	450	Pipe/Conduit	
44.002	29.516	0.072	410.0	0.085	0.00	0.0	0.600		o	450	Pipe/Conduit	
44.003	9.116	0.022	410.0	0.000	0.00	0.0	0.600		o	450	Pipe/Conduit	
45.000	14.512	0.143	101.5	0.055	5.00	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)
41.000	81.56	5.21	121.655	0.070	0.0	0.0	0.0	1.73	30.5	15.5
41.001	80.18	5.34	120.799	0.125	0.0	0.0	0.0	1.19	131.7	27.1
39.003	50.39	10.36	120.459	0.350	0.0	0.0	0.0	2.48	886.4	47.8
42.000	51.13	10.15	120.646	0.028	0.0	0.0	0.0	1.04	73.3	3.9
39.004	49.84	10.53	120.155	0.443	0.0	0.0	0.0	1.77	779.9	59.8
39.005	48.74	10.87	120.085	0.443	0.0	0.0	0.0	1.85	816.8	59.8
43.000	81.06	5.25	121.479	0.091	0.0	0.0	0.0	1.85	32.6	20.0
43.001	79.86	5.37	120.317	0.147	0.0	0.0	0.0	1.02	112.5	31.8
39.006	47.81	11.17	119.920	0.634	0.0	0.0	0.0	1.84	812.4	82.1
44.000	81.02	5.26	120.407	0.095	0.0	0.0	0.0	1.00	158.7	20.8
44.001	77.97	5.55	120.369	0.120	0.0	0.0	0.0	1.00	158.7	25.3
44.002	73.47	6.05	120.326	0.205	0.0	0.0	0.0	1.00	158.7	40.8
44.003	72.20	6.20	120.254	0.205	0.0	0.0	0.0	1.00	158.7	40.8
45.000	81.79	5.19	120.860	0.055	0.0	0.0	0.0	1.30	51.6	12.2

M-EC		Page 15
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
45.001	45.905	0.186	246.8	0.045	0.00	0.0	0.600		o	300	Pipe/Conduit	
45.002	11.336	0.074	153.2	0.050	0.00	0.0	0.600		o	375	Pipe/Conduit	
44.004	14.982	0.037	410.0	0.109	0.00	0.0	0.600		o	450	Pipe/Conduit	
44.005	26.565	0.065	410.0	0.023	0.00	0.0	0.600		o	450	Pipe/Conduit	
44.006	10.000	0.024	410.0	0.082	0.00	0.0	0.600		o	450	Pipe/Conduit	
44.007	9.640	0.032	301.3	0.000	0.00	0.0	0.600		o	450	Pipe/Conduit	
39.007	17.177	0.057	301.4	0.113	0.00	0.0	0.600		o	825	Pipe/Conduit	
46.000	37.524	0.221	169.8	0.128	5.00	0.0	0.600		o	225	Pipe/Conduit	
46.001	18.648	0.110	169.5	0.053	0.00	0.0	0.600		o	225	Pipe/Conduit	
47.000	28.051	0.281	99.8	0.052	5.00	0.0	0.600		o	150	Pipe/Conduit	
47.001	24.455	0.144	169.8	0.066	0.00	0.0	0.600		o	225	Pipe/Conduit	
47.002	23.090	0.348	66.4	0.047	0.00	0.0	0.600		o	225	Pipe/Conduit	
46.002	18.508	0.077	240.4	0.038	0.00	0.0	0.600		o	300	Pipe/Conduit	
46.003	31.075	0.806	38.6	0.101	0.00	0.0	0.600		o	300	Pipe/Conduit	
46.004	8.275	0.027	306.5	0.000	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)
45.001	74.26	5.95	120.642	0.100	0.0	0.0	0.0	1.00	70.4	20.1
45.002	73.15	6.08	120.381	0.150	0.0	0.0	0.0	1.46	161.4	29.7
44.004	70.23	6.45	120.232	0.464	0.0	0.0	0.0	1.00	158.7	88.3
44.005	67.03	6.89	120.195	0.487	0.0	0.0	0.0	1.00	158.7	88.4
44.006	65.92	7.06	120.131	0.569	0.0	0.0	0.0	1.00	158.7	101.6
44.007	65.03	7.20	120.107	0.569	0.0	0.0	0.0	1.17	185.5	101.6
39.007	47.32	11.34	119.700	1.316	0.0	0.0	0.0	1.71	911.4	168.6
46.000	77.27	5.63	121.484	0.128	0.0	0.0	0.0	1.00	39.8	26.8
46.001	74.42	5.94	121.263	0.181	0.0	0.0	0.0	1.00	39.8	36.5
47.000	78.85	5.46	122.001	0.052	0.0	0.0	0.0	1.01	17.8	11.1
47.001	74.98	5.87	121.646	0.118	0.0	0.0	0.0	1.00	39.8	24.0
47.002	72.92	6.11	121.502	0.165	0.0	0.0	0.0	1.61	63.9	32.6
46.002	70.47	6.42	121.079	0.384	0.0	0.0	0.0	1.01	71.4<	73.3
46.003	68.95	6.62	121.001	0.485	0.0	0.0	0.0	2.54	179.5	90.6
46.004	68.09	6.74	120.045	0.485	0.0	0.0	0.0	1.16	183.8	90.6

M-EC		Page 16
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

STORM SEWER DESIGN by the Modified Rational Method


Network Design Table for STORM.SWS

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
39.008	21.765	0.134	162.4	0.000	0.00	0.0	0.600		o	825	Pipe/Conduit	
39.009	48.154	0.182	264.6	0.075	0.00	0.0	0.600		o	825	Pipe/Conduit	
48.000	20.088	0.774	26.0	0.061	5.00	0.0	0.600		o	150	Pipe/Conduit	
48.001	6.755	0.022	307.0	0.067	0.00	0.0	0.600		o	450	Pipe/Conduit	
49.000	7.522	0.475	15.8	0.191	5.00	0.0	0.600		o	300	Pipe/Conduit	
49.001	13.333	0.043	310.1	0.012	0.00	0.0	0.600		o	450	Pipe/Conduit	
39.010	16.370	0.145	112.9	0.000	0.00	0.0	0.600		o	900	Pipe/Conduit	
39.011	32.808	0.156	210.3	0.375	0.00	0.0	0.600		o	900	Pipe/Conduit	
39.012	44.355	0.181	245.1	0.214	0.00	0.0	0.600		o	900	Pipe/Conduit	
50.000	29.808	0.307	97.1	0.063	5.00	0.0	0.600		o	150	Pipe/Conduit	
50.001	18.191	0.219	83.1	0.089	0.00	0.0	0.600		o	225	Pipe/Conduit	
51.000	8.415	0.050	168.3	0.025	5.00	0.0	0.600		o	225	Pipe/Conduit	
50.002	23.826	0.301	79.2	0.035	0.00	0.0	0.600		o	225	Pipe/Conduit	
52.000	22.530	0.225	100.1	0.059	5.00	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)
39.008	46.87	11.50	119.643	1.801	0.0	0.0	0.0	2.33	1243.9	228.6
39.009	45.65	11.94	119.509	1.876	0.0	0.0	0.0	1.82	973.2	231.9
48.000	81.99	5.17	120.798	0.061	0.0	0.0	0.0	1.98	35.1	13.5
48.001	80.92	5.27	119.724	0.128	0.0	0.0	0.0	1.15	183.7	28.1
49.000	83.54	5.03	120.370	0.191	0.0	0.0	0.0	3.97	280.7	43.2
49.001	81.37	5.22	119.745	0.203	0.0	0.0	0.0	1.15	182.8	44.7
39.010	45.40	12.03	119.252	2.207	0.0	0.0	0.0	2.95	1875.7	271.4
39.011	44.75	12.28	119.107	2.582	0.0	0.0	0.0	2.16	1372.1	312.9
39.012	43.83	12.65	118.951	2.796	0.0	0.0	0.0	2.00	1270.5	331.9
50.000	78.63	5.49	121.295	0.063	0.0	0.0	0.0	1.02	18.0	13.4
50.001	76.58	5.70	120.913	0.152	0.0	0.0	0.0	1.44	57.1	31.5
51.000	82.31	5.14	120.743	0.025	0.0	0.0	0.0	1.00	40.0	5.6
50.002	74.14	5.97	120.694	0.212	0.0	0.0	0.0	1.47	58.5	42.6
52.000	79.78	5.37	120.801	0.059	0.0	0.0	0.0	1.00	17.7	12.7



M-EC		Page 17
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
52.001	10.758	0.108	99.6	0.047	0.00	0.0	0.600		o	225	Pipe/Conduit	
50.003	18.281	0.076	240.5	0.024	0.00	0.0	0.600		o	300	Pipe/Conduit	
50.004	22.279	0.093	239.6	0.038	0.00	0.0	0.600		o	300	Pipe/Conduit	
50.005	22.998	0.724	31.8	0.048	0.00	0.0	0.600		o	300	Pipe/Conduit	
50.006	8.593	0.055	156.2	0.000	0.00	0.0	0.600		o	450	Pipe/Conduit	
53.000	61.476	0.368	167.1	0.043	5.00	0.0	0.600		o	225	Pipe/Conduit	
54.000	19.224	0.636	30.2	0.027	5.00	0.0	0.600		o	225	Pipe/Conduit	
53.001	15.063	0.576	26.2	0.064	0.00	0.0	0.600		o	225	Pipe/Conduit	
39.013	17.746	0.035	507.0	0.000	0.00	0.0	0.600		o	1050	Pipe/Conduit	
39.014	80.960	0.161	502.9	0.020	0.00	0.0	0.600		o	1050	Pipe/Conduit	
55.000	42.845	0.440	97.4	0.081	5.00	0.0	0.600		o	150	Pipe/Conduit	
55.001	54.385	0.639	85.1	0.070	0.00	0.0	0.600		o	225	Pipe/Conduit	
56.000	23.054	0.136	169.5	0.131	5.00	0.0	0.600		o	225	Pipe/Conduit	
56.001	9.371	0.055	170.4	0.038	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)
52.001	78.39	5.51	120.501	0.106	0.0	0.0	0.0	1.31	52.1	22.5
50.003	71.62	6.27	120.318	0.342	0.0	0.0	0.0	1.01	71.3	66.3
50.004	68.83	6.64	120.241	0.380	0.0	0.0	0.0	1.01	71.5	70.8
50.005	67.85	6.77	120.149	0.428	0.0	0.0	0.0	2.80	197.9	78.6
50.006	67.24	6.86	119.275	0.428	0.0	0.0	0.0	1.62	258.3	78.6
53.000	73.73	6.02	120.389	0.043	0.0	0.0	0.0	1.01	40.1	8.6
54.000	82.37	5.13	120.657	0.027	0.0	0.0	0.0	2.39	95.0	6.0
53.001	72.90	6.11	120.021	0.134	0.0	0.0	0.0	2.57	102.1	26.5
39.013	43.36	12.85	118.620	3.358	0.0	0.0	0.0	1.52	1319.2	394.3
39.014	41.39	13.73	118.585	3.378	0.0	0.0	0.0	1.53	1324.7	394.3
55.000	76.55	5.70	121.343	0.081	0.0	0.0	0.0	1.02	18.0	16.8
55.001	71.07	6.34	120.828	0.151	0.0	0.0	0.0	1.42	56.4	29.1
56.000	79.68	5.38	120.380	0.131	0.0	0.0	0.0	1.00	39.8	28.3
56.001	78.10	5.54	120.244	0.169	0.0	0.0	0.0	1.00	39.7	35.7

M-EC		Page 18
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

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
55.002	34.389	0.220	156.3	0.012	0.00	0.0	0.600		o	300	Pipe/Conduit	
55.003	18.750	0.078	240.4	0.060	0.00	0.0	0.600		o	375	Pipe/Conduit	
55.004	17.209	0.642	26.8	0.076	0.00	0.0	0.600		o	375	Pipe/Conduit	
39.015	78.757	0.228	345.4	0.000	0.00	0.0	0.600		o	1050	Pipe/Conduit	
39.016	90.127	2.649	34.0	0.000	0.00	0.0		0.400	3 \=/	2500	1:3 Swale	
39.017	90.000	3.139	28.7	0.000	0.00	0.0		0.400	3 \=/	2500	1:3 Swale	
1.027	55.103	2.755	20.0	0.000	0.00	0.0		0.350	3 \=/	2500	1:3 Swale	
1.028	34.897	2.952	11.8	0.000	0.00	0.0		0.350	3 \=/	2500	1:3 Swale	
1.029	90.000	9.000	10.0	0.000	0.00	0.0		0.400	3 \=/	2500	1:3 Swale	
1.030	84.302	4.277	19.7	0.000	0.00	0.0		0.350	3 \=/	2500	1:3 Swale	
1.031	92.048	1.530	60.2	0.000	0.00	0.0		0.250	3 \=/	2500	1:3 Swale	
1.032	65.878	0.377	174.7	0.000	0.00	0.0		0.250	3 \=/	500	1:3 Swale	
1.033	35.206	0.352	100.0	0.000	0.00	0.0		0.250	3 \=/	500	1:3 Swale	
1.034	44.765	0.257	174.2	0.000	0.00	0.0	0.600		o	450	Pipe/Conduit	
57.000	60.341	0.121	498.7	5.000	10.00	0.0		0.250	3 \=/	500	1:3 Swale	
57.001	96.145	0.192	500.8	0.000	0.00	0.0		0.250	3 \=/	500	1:3 Swale	
57.002	58.234	0.116	502.0	0.000	0.00	0.0		0.250	3 \=/	500	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)
55.002	67.69	6.80	120.114	0.332	0.0	0.0	0.0	1.26	88.7	60.9
55.003	65.88	7.07	119.819	0.392	0.0	0.0	0.0	1.16	128.6	69.9
55.004	65.35	7.15	119.741	0.468	0.0	0.0	0.0	3.51	387.9	82.8
39.015	39.96	14.44	118.424	3.846	0.0	0.0	0.0	1.85	1600.6	416.2
39.016	25.01	28.22	118.196	3.846	0.0	0.0	0.0	0.11	48.2<	416.2
39.017	23.96	30.00	115.547	3.846	0.0	0.0	0.0	0.12	52.6<	416.2
1.027	23.96	30.00	111.708	16.296	0.0	0.0	0.0	0.16	71.9<	1063.6
1.028	23.96	30.00	108.952	16.296	0.0	0.0	0.0	0.21	93.5<	1063.6
1.029	23.96	30.00	106.000	16.296	0.0	0.0	0.0	0.20	89.0<	1063.6
1.030	23.96	30.00	97.000	16.296	0.0	0.0	0.0	0.16	72.4<	1063.6
1.031	23.96	30.00	92.382	16.296	0.0	0.0	0.0	0.13	58.1<	1063.6
1.032	23.96	30.00	90.852	16.296	0.0	0.0	0.0	0.06	9.2<	1063.6
1.033	23.96	30.00	90.475	16.296	0.0	0.0	0.0	0.09	12.1<	1063.6
1.034	23.96	30.00	89.823	16.296	0.0	0.0	0.0	1.54	244.5<	1063.6
57.000	23.96	30.00	90.145	5.000	0.0	0.0	0.0	0.04	5.4<	324.4
57.001	23.96	30.00	90.024	5.000	0.0	0.0	0.0	0.04	5.4<	324.4
57.002	23.96	30.00	89.832	5.000	0.0	0.0	0.0	0.04	5.4<	324.4

M-EC		Page 19
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for STORM.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.035	68.558	3.216	21.3	0.000	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.036	19.339	0.110	175.8	0.000	0.00	0.0	0.600		o	300	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)
1.035	23.96	30.00	89.566	21.296	0.0	0.0	0.0	3.42	241.8«	1381.6
1.036	23.96	30.00	86.350	21.296	0.0	0.0	0.0	1.18	83.6«	1381.6

M-EC		Page 20
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Manhole Schedules for STORM.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
1	117.964	1.409	Open Manhole	1200	1.000	116.555	300				
2	117.983	1.574	Open Manhole	1200	1.001	116.409	300	1.000	116.409	300	
3	118.123	2.010	Open Manhole	1200	1.002	116.113	375	1.001	116.188	300	
4	118.278	2.306	Open Manhole	1500	1.003	115.972	375	1.002	115.972	375	
5	120.019	1.644	Open Manhole	1200	2.000	118.375	300				
6	119.966	1.805	Open Manhole	1500	2.001	118.161	300	2.000	118.161	300	
6	119.849	1.936	Open Manhole	1200	2.002	117.913	300	2.001	117.913	300	
8	119.534	2.486	Open Manhole	1200	2.003	117.048	300	2.002	117.048	300	
9.1	119.400	1.200	Open Manhole	1200	3.000	118.200	225				
9	118.366	1.521	Open Manhole	1200	3.001	116.845	300	3.000	116.920	225	
10	118.370	1.762	Open Manhole	1200	3.002	116.608	375	3.001	116.683	300	
11	118.647	2.215	Open Manhole	1800	3.003	116.432	450	3.002	116.507	375	
12	118.927	1.866	Open Manhole	1200	4.000	117.061	225				
13	118.912	2.677	Open Manhole	1500	3.004	116.235	525	3.003	116.310	450	
								4.000	116.535	225	
14	119.126	3.098	Open Manhole	1800	3.005	116.028	525	3.004	116.028	525	
15	119.330	3.465	Open Manhole	1500	3.006	115.865	600	3.005	115.940	525	
16	119.386	3.543	Open Manhole	1500	2.004	115.843	600	2.003	116.143	300	
								3.006	115.843	600	
17	119.147	3.394	Open Manhole	1800	2.005	115.753	600	2.004	115.753	600	
18	118.840	2.178	Open Manhole	1200	5.000	116.662	225				
19	118.835	3.256	Open Manhole	1800	2.006	115.579	600	2.005	115.579	600	
								5.000	115.954	225	
20	118.661	3.254	Open Manhole	1800	2.007	115.407	600	2.006	115.407	600	
21	118.619	3.371	Open Manhole	1800	1.004	115.248	600	1.003	115.473	375	
								2.007	115.248	600	
22	118.636	3.599	Open Manhole	1800	1.005	115.037	750	1.004	115.187	600	
23	118.245	1.540	Open Manhole	1500	6.000	116.705	225				
24	118.244	1.776	Open Manhole	1200	6.001	116.468	225	6.000	116.468	225	
25	118.399	2.074	Open Manhole	1200	6.002	116.325	300	6.001	116.400	225	
26	118.793	2.778	Open Manhole	1200	6.003	116.015	300	6.002	116.015	300	
27	118.725	2.844	Open Manhole	1500	6.004	115.881	375	6.003	115.956	300	
28	118.879	3.271	Open Manhole	1500	6.005	115.608	375	6.004	115.608	375	
29	118.956	4.076	Open Manhole	1800	1.006	114.880	750	1.005	114.880	750	
								6.005	115.255	375	
30	119.423	1.388	Open Manhole	1500	7.000	118.035	225				
31	119.465	1.595	Open Manhole	1200	7.001	117.870	225	7.000	117.870	225	
8	119.241	4.650	Open Manhole	1800	1.007	114.591	750	1.006	114.591	750	

M-EC		Page 21
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Manhole Schedules for STORM.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
60	118.918	2.287	Open Manhole	1200	8.000	116.631	225	7.001	115.116	225	
61	119.034	2.650	Open Manhole	1200	8.001	116.384	300	8.000	116.459	225	
35	119.427	3.299	Open Manhole	1200	8.002	116.128	300	8.001	116.128	300	
10	119.263	5.084	Open Manhole	1800	1.008	114.179	900	1.007	114.355	750	26
								8.002	114.779	300	
62	120.909	1.909	Open Manhole	1200	9.000	119.000	300				
40	120.168	1.500	Open Manhole	1200	10.000	118.668	300				
63	120.403	1.799	Open Manhole	1500	9.001	118.604	375	9.000	118.679	300	
								10.000	118.604	300	
64	119.909	1.766	Open Manhole	1500	9.002	118.143	375	9.001	118.218	375	75
148	119.214	4.398	Open Manhole	1500	9.003	114.816	450	9.002	114.891	375	
11	119.437	5.277	Open Manhole	1800	1.009	114.160	900	1.008	114.160	900	
								9.003	114.610	450	
12	119.251	5.175	Open Manhole	1800	1.010	114.076	900	1.009	114.076	900	
13	119.289	5.235	Open Manhole	1800	1.011	114.054	900	1.010	114.054	900	
14	119.492	5.621	Open Manhole	1800	1.012	113.871	1050	1.011	114.021	900	
15	119.688	5.868	Open Manhole	1800	1.013	113.820	1050	1.012	113.820	1050	
16	119.823	6.026	Open Manhole	1800	1.014	113.797	1050	1.013	113.797	1050	
TWC16	119.141	1.525	Open Manhole	1200	11.000	117.616	225				
TWC17	119.956	4.521	Open Manhole	1200	11.001	115.435	225	11.000	115.435	225	
17	119.793	6.123	Open Manhole	3000	1.015	113.670	1200	1.014	113.745	1050	
								11.001	114.645	225	
18	119.582	6.015	Open Manhole	1800	1.016	113.567	1200	1.015	113.567	1200	
TWC1	119.101	1.525	Open Manhole	1200	12.000	117.576	225				
TWC2	119.272	1.861	Open Manhole	1200	12.001	117.411	225	12.000	117.411	225	
TWC3	119.237	2.092	Open Manhole	1200	12.002	117.145	225	12.001	117.145	225	
TWC4	119.364	2.292	Open Manhole	1200	12.003	117.072	225	12.002	117.072	225	
TWC5	119.590	1.525	Open Manhole	1200	13.000	118.065	225				
TWC6	119.597	1.754	Open Manhole	1200	13.001	117.843	225	13.000	117.843	225	
TWC7	119.659	1.986	Open Manhole	1200	13.002	117.673	225	13.001	117.673	225	
TWC8	119.429	2.562	Open Manhole	1500	12.004	116.867	375	12.003	117.017	225	
								13.002	117.017	225	
TWC9	119.483	2.690	Open Manhole	1500	12.005	116.793	375	12.004	116.793	375	
TWC10	119.448	2.703	Open Manhole	1500	12.006	116.745	375	12.005	116.745	375	
TWC11	119.407	5.940	Open Manhole	1800	1.017	113.467	1200	1.016	113.480	1200	13
								12.006	116.574	375	2282
19	119.214	5.834	Open Manhole	1800	1.018	113.393	1200	1.017	113.380	1200	

M-EC		Page 22
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Manhole Schedules for STORM.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
TWC12	118.709	1.525	Open Manhole	1200	14.000	117.184	225				
TWC13	118.937	1.910	Open Manhole	1200	14.001	117.027	225	14.000	117.027	225	
TWC14	119.108	3.054	Open Manhole	1200	14.002	116.054	225	14.001	116.054	225	
TWC15	119.102	5.974	Open Manhole	1800	1.019	113.128	1200	1.018	113.128	1200	
								14.002	115.740	225	1637
65	118.596	1.527	Open Manhole	1200	15.000	117.069	300				
136	119.199	1.210	Open Manhole	1200	16.000	117.989	225				
137	118.881	1.199	Open Manhole	1200	16.001	117.682	225	16.000	117.682	225	
138	118.903	1.484	Open Manhole	1200	16.002	117.419	300	16.001	117.494	225	
66	118.994	2.183	Open Manhole	1500	15.001	116.811	375	15.000	116.886	300	
								16.002	116.900	300	14
67	119.258	2.589	Open Manhole	1500	15.002	116.669	375	15.001	116.669	375	
9	118.535	1.251	Open Manhole	1200	17.000	117.284	300				
75	118.329	1.232	Open Manhole	1200	17.001	117.097	300	17.000	117.097	300	
76	118.786	2.091	Open Manhole	1500	17.002	116.695	525	17.001	116.920	300	
68	119.021	2.601	Open Manhole	1500	15.003	116.420	525	15.002	116.570	375	
								17.002	116.420	525	
69	118.964	2.747	Open Manhole	1500	15.004	116.217	600	15.003	116.292	525	
70	118.669	2.541	Open Manhole	1500	15.005	116.128	600	15.004	116.128	600	
71	118.775	2.701	Open Manhole	1500	15.006	116.074	600	15.005	116.074	600	
147	118.260	1.514	Open Manhole	1200	18.000	116.746	225				
112	117.970	1.423	Open Manhole	1200	18.001	116.547	300	18.000	116.622	225	
113	118.208	1.855	Open Manhole	1500	18.002	116.353	450	18.001	116.503	300	
115	118.775	1.506	Open Manhole	1200	19.000	117.269	225				
116	118.580	1.575	Open Manhole	1200	19.001	117.005	225	19.000	117.005	225	
77	118.741	2.441	Open Manhole	1500	18.003	116.300	450	18.002	116.300	450	
								19.001	116.525	225	
134	118.642	1.435	Open Manhole	1200	20.000	117.207	225				
135	118.866	2.691	Open Manhole	1500	18.004	116.175	525	18.003	116.250	450	
								20.000	116.475	225	
78	118.848	2.728	Open Manhole	1500	18.005	116.120	525	18.004	116.120	525	
72	119.041	3.043	Open Manhole	1500	15.007	115.998	600	15.006	115.998	600	
								18.005	116.073	525	
73	119.637	3.783	Open Manhole	1500	15.008	115.854	600	15.007	115.854	600	
74	119.581	3.770	Open Manhole	1500	15.009	115.811	600	15.008	115.811	600	
98	119.793	4.008	Open Manhole	1500	15.010	115.785	600	15.009	115.785	600	
99	119.582	3.899	Open Manhole	1500	15.011	115.683	600	15.010	115.683	600	
101	119.214	3.715	Open Manhole	1500	15.012	115.499	600	15.011	115.499	600	

M-EC		Page 23
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Manhole Schedules for STORM.SWS


MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
142	119.497	2.433	Open Manhole	1200	21.000	117.064	225				
143	119.421	2.779	Open Manhole	1200	21.001	116.642	225	21.000	116.642	225	
118	118.601	1.520	Open Manhole	1200	22.000	117.081	225				
119	118.400	1.405	Open Manhole	1200	22.001	116.995	225	22.000	116.995	225	
120	118.320	1.390	Open Manhole	1200	22.002	116.936	225	22.001	116.930	225	
129	118.563	1.986	Open Manhole	1200	23.000	116.577	300				
130	118.362	1.920	Open Manhole	1200	23.001	116.442	300	23.000	116.447	300	5
121	118.534	2.340	Open Manhole	1200	22.003	116.194	300	22.002	116.267	225	
								23.001	116.194	300	
131	119.038	2.184	Open Manhole	1200	24.000	116.854	225				
132	118.802	2.245	Open Manhole	1200	24.001	116.557	225	24.000	116.582	225	25
133	118.756	2.316	Open Manhole	1200	24.002	116.440	300	24.001	116.515	225	
122	118.603	2.629	Open Manhole	1500	22.004	115.974	450	22.003	116.127	300	2
								24.002	116.116	300	
123	118.806	2.936	Open Manhole	1500	22.005	115.878	450	22.004	115.870	450	
139	119.320	2.659	Open Manhole	1200	25.000	116.661	225				
140	119.253	2.704	Open Manhole	1200	25.001	116.549	225	25.000	116.571	225	22
124	118.985	3.178	Open Manhole	1500	22.006	115.812	450	22.005	115.807	450	
								25.001	116.037	225	
125	119.236	3.630	Open Manhole	1500	22.007	115.606	600	22.006	115.745	450	
126	119.362	3.953	Open Manhole	1800	22.008	115.409	750	22.007	115.559	600	
127	119.300	3.987	Open Manhole	1800	22.009	115.313	750	22.008	115.313	750	
149	118.643	3.378	Open Manhole	1800	21.002	115.265	750	21.001	115.790	225	
								22.009	115.284	750	19
20	118.752	5.694	Open Manhole	1800	1.020	113.179	375	1.019	113.058	1200	
								15.012	115.366	600	2412
								21.002	114.996	750	2192
108	118.861	5.696	Open Manhole	1800	1.021	113.170	375	1.020	113.165	375	
21	118.659	5.625	Open Manhole	1800	1.022	113.034	375	1.021	113.039	375	5
22	118.850	6.004	Open Manhole	1800	1.023	112.846	375	1.022	112.846	375	
89	122.034	2.771	Open Manhole	1800	26.000	119.263	675				
90	121.458	2.526	Open Manhole	1500	26.001	118.932	675	26.000	118.932	675	
200	121.333	1.817	Open Manhole	1200	27.000	119.516	300				
109	121.248	2.494	Open Manhole	1500	27.001	118.754	525	27.000	118.979	300	
91	120.989	2.491	Open Manhole	1800	26.002	118.498	750	26.001	118.573	675	
								27.001	118.723	525	
TWD27	120.890	1.573	Open Manhole	1200	28.000	119.317	300				
91A	120.643	2.306	Open Manhole	1800	26.003	118.337	825	26.002	118.412	750	

M-EC		Page 24
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Manhole Schedules for STORM.SWS


MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
92	120.446	2.207	Open Manhole	1800	26.004	118.239	825	28.000	118.862	300	
93	120.428	2.250	Open Manhole	1800	26.005	118.178	825	26.003	118.239	825	
TWD29	120.865	1.525	Open Manhole	1200	29.000	119.340	225	26.004	118.178	825	
TWD30	121.025	1.867	Open Manhole	1200	29.001	119.158	300	29.000	119.233	225	
TWD31	120.865	1.817	Open Manhole	1200	29.002	119.048	300	29.001	119.048	300	
94	120.923	2.882	Open Manhole	1800	26.006	118.041	825	29.002	118.566	300	
95	121.355	3.425	Open Manhole	1800	26.007	117.930	825	26.005	118.041	825	
201	121.146	2.005	Open Manhole	1200	30.000	119.141	300	29.002	118.566	300	
202	120.925	2.035	Open Manhole	1200	30.001	118.890	300	26.006	117.930	825	
203	121.038	2.237	Open Manhole	1200	30.002	118.801	300	30.000	118.890	300	
204	121.214	2.606	Open Manhole	1500	30.003	118.608	375	30.001	118.801	300	
117	121.279	2.983	Open Manhole	1500	30.004	118.296	375	30.002	118.683	300	
95A	121.512	3.726	Open Manhole	1800	26.008	117.786	825	30.003	118.296	375	
96	121.128	3.520	Open Manhole	1800	26.009	117.608	825	30.004	118.296	375	
97	120.413	3.200	Open Manhole	1800	26.010	117.213	825	26.007	117.786	825	
121	120.529	3.734	Open Manhole	1800	31.000	116.795	825	30.004	118.236	375	
TWD4	121.561	1.525	Open Manhole	1200	32.000	120.036	225	26.008	117.608	825	
TWD5	121.349	1.525	Open Manhole	1200	32.001	119.824	225	26.009	117.608	825	
TWD16	121.006	1.595	Open Manhole	1200	33.000	119.411	300	26.010	117.213	825	
TWD6	120.940	1.727	Open Manhole	1500	32.002	119.213	375	30.009	117.213	825	
TWD17	121.007	1.525	Open Manhole	1200	34.000	119.482	225	30.010	117.213	825	
TWD18	120.938	1.525	Open Manhole	1200	35.000	119.413	225	30.004	119.824	225	
TWD7	121.119	2.054	Open Manhole	1500	32.003	119.065	375	30.006	119.363	225	
TWD8	120.558	2.025	Open Manhole	1500	32.004	118.533	450	30.007	119.288	300	
TWD9	120.379	1.978	Open Manhole	1500	32.005	118.401	450	30.008	119.288	300	
TWD10	120.374	2.023	Open Manhole	1500	32.006	118.351	450	30.009	119.288	300	
TWD19	121.012	1.516	Open Manhole	1200	36.000	119.496	225	30.010	119.288	300	
TWD11	120.480	3.359	Open Manhole	1500	32.007	117.121	600	30.001	119.065	375	1020
TWD20	121.075	1.814	Open Manhole	1200	37.000	119.261	225	30.002	119.065	375	1019
TWD21	120.750	1.779	Open Manhole	1200	37.001	118.971	300	30.003	119.215	225	
TWD22	120.794	2.028	Open Manhole	1500	37.002	118.766	300	30.004	119.215	225	



M-EC		Page 25
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Manhole Schedules for STORM.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
TWD23	120.299	1.814	Open Manhole	1500	37.003	118.485	375	37.002	118.560	300	
TWD24	120.086	1.675	Open Manhole	1500	37.004	118.411	375	37.003	118.411	375	
TWD25	120.583	2.660	Open Manhole	1500	37.005	117.923	375	37.004	117.923	375	
TWD12	120.329	3.304	Open Manhole	1500	32.008	117.025	675	32.007	117.100	600	
								37.005	117.325	375	
TWD26	120.750	1.525	Open Manhole	1200	38.000	119.225	225				
TWD13	120.584	3.719	Open Manhole	1800	32.009	116.865	750	32.008	116.940	675	
								38.000	118.365	225	975
TWD14	120.218	3.421	Open Manhole	1800	32.010	116.797	750	32.009	116.797	750	
TWD15	119.970	3.225	Open Manhole	1800	32.011	116.745	750	32.010	116.746	750	1
98	119.983	3.445	Open Manhole	1800	26.011	116.538	1050	26.010	116.763	825	
								31.000	116.763	825	
								32.011	116.710	750	
99	119.492	3.522	Open Manhole	1800	26.012	115.970	1050	26.011	115.970	1050	
100	119.039	3.360	Open Manhole	1800	26.013	115.679	1050	26.012	115.679	1050	
23	118.546	5.789	Open Manhole	1800	1.024	112.757	375	1.023	112.757	375	
								26.013	115.611	1050	3529
24	117.029	4.478	Open Manhole	1800	1.025	112.551	375	1.024	112.551	375	
25	114.893	2.479	Open Manhole		1.026	112.414	375	1.025	112.414	375	
79	124.059	2.411	Open Manhole	1800	39.000	121.648	525				
80	123.264	2.030	Open Manhole	1800	39.001	121.234	525	39.000	121.234	525	
81	122.848	2.196	Open Manhole	1500	39.002	120.652	675	39.001	120.802	525	
130	122.444	1.468	Open Manhole	1200	40.000	120.976	225				
BAR1	123.005	1.350	Open Manhole	1200	41.000	121.655	150				
131	122.765	1.966	Open Manhole	1500	41.001	120.799	375	41.000	121.024	150	
81A	122.625	2.166	Open Manhole	1500	39.003	120.459	675	39.002	120.459	675	
								40.000	120.909	225	
								41.001	120.759	375	
133	122.209	1.563	Open Manhole	1200	42.000	120.646	300				
82	122.443	2.288	Open Manhole	1800	39.004	120.155	750	39.003	120.230	675	
								42.000	120.605	300	
83	122.543	2.458	Open Manhole	1800	39.005	120.085	750	39.004	120.085	750	
BAR2	122.829	1.350	Open Manhole	1200	43.000	121.479	150				
136	122.387	2.070	Open Manhole	1500	43.001	120.317	375	43.000	120.542	150	
83A	122.394	2.474	Open Manhole	1800	39.006	119.920	750	39.005	119.920	750	
								43.001	120.295	375	
206	121.837	1.430	Open Manhole	1500	44.000	120.407	450				
207	121.873	1.503	Open Manhole	1500	44.001	120.369	450	44.000	120.369	450	

M-EC		Page 26
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Manhole Schedules for STORM.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
208	122.049	1.722	Open Manhole	1500	44.002	120.326	450	44.001	120.326	450	
209	122.340	2.086	Open Manhole	1500	44.003	120.254	450	44.002	120.254	450	
210	122.285	1.425	Open Manhole	1200	45.000	120.860	225				
211	122.142	1.500	Open Manhole	1200	45.001	120.642	300	45.000	120.717	225	
212	122.262	1.881	Open Manhole	1500	45.002	120.381	375	45.001	120.456	300	
213	122.411	2.179	Open Manhole	1500	44.004	120.232	450	44.003	120.232	450	
								45.002	120.307	375	
214	122.490	2.294	Open Manhole	1500	44.005	120.195	450	44.004	120.195	450	
215	122.248	2.117	Open Manhole	1500	44.006	120.131	450	44.005	120.131	450	
138	122.037	1.931	Open Manhole	1500	44.007	120.107	450	44.006	120.106	450	
84	122.072	2.372	Open Manhole	1800	39.007	119.700	825	39.006	119.775	750	
								44.007	120.075	450	
BAR4	122.909	1.425	Open Manhole	1200	46.000	121.484	225				
BAR5	122.688	1.425	Open Manhole	1200	46.001	121.263	225	46.000	121.263	225	
BAR6	123.351	1.350	Open Manhole	1200	47.000	122.001	150				
BAR7	123.071	1.425	Open Manhole	1200	47.001	121.646	225	47.000	121.720	150	
BAR8	122.927	1.425	Open Manhole	1200	47.002	121.502	225	47.001	121.502	225	
BAR9	122.579	1.500	Open Manhole	1200	46.002	121.079	300	46.001	121.153	225	
								47.002	121.154	225	
BAR10	122.501	1.500	Open Manhole	1200	46.003	121.001	300	46.002	121.002	300	
140	122.061	2.016	Open Manhole	1500	46.004	120.045	450	46.003	120.195	300	
85	122.114	2.471	Open Manhole	1800	39.008	119.643	825	39.007	119.643	825	
								46.004	120.018	450	
86	122.196	2.687	Open Manhole	1800	39.009	119.509	825	39.008	119.509	825	
BAR3	122.148	1.350	Open Manhole	1200	48.000	120.798	150				
143	121.856	2.132	Open Manhole	1500	48.001	119.724	450	48.000	120.024	150	
216	122.085	1.715	Open Manhole	1200	49.000	120.370	300				
144	121.989	2.244	Open Manhole	1500	49.001	119.745	450	49.000	119.895	300	
87	121.870	2.618	Open Manhole	1800	39.010	119.252	900	39.009	119.327	825	
								48.001	119.702	450	
								49.001	119.702	450	
88	121.986	2.879	Open Manhole	1800	39.011	119.107	900	39.010	119.107	900	
103	121.952	3.001	Open Manhole	1800	39.012	118.951	900	39.011	118.951	900	
BAR11	122.645	1.350	Open Manhole	1200	50.000	121.295	150				
BAR12	122.338	1.425	Open Manhole	1200	50.001	120.913	225	50.000	120.988	150	
BAR13	122.168	1.425	Open Manhole	1200	51.000	120.743	225				
BAR14	122.119	1.426	Open Manhole	1200	50.002	120.694	225	50.001	120.694	225	
								51.000	120.693	225	

M-EC		Page 27
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Manhole Schedules for STORM.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
BAR15	122.151	1.350	Open Manhole	1200	52.000	120.801	150				
BAR16	121.926	1.425	Open Manhole	1200	52.001	120.501	225	52.000	120.576	150	
BAR17	121.818	1.500	Open Manhole	1200	50.003	120.318	300	50.002	120.393	225	
								52.001	120.393	225	
BAR18	121.741	1.500	Open Manhole	1200	50.004	120.241	300	50.003	120.242	300	1
BAR19	121.649	1.501	Open Manhole	1200	50.005	120.149	300	50.004	120.148	300	
149	122.198	2.923	Open Manhole	1500	50.006	119.275	450	50.005	119.425	300	
TWD1	121.814	1.425	Open Manhole	1200	53.000	120.389	225				
TWD3	122.082	1.425	Open Manhole	1200	54.000	120.657	225				
TWD2	121.446	1.425	Open Manhole	1200	53.001	120.021	225	53.000	120.021	225	
								54.000	120.021	225	
104	121.882	3.262	Open Manhole	1800	39.013	118.620	1050	39.012	118.770	900	
								50.006	119.220	450	
								53.001	119.445	225	
104A	121.774	3.189	Open Manhole	1800	39.014	118.585	1050	39.013	118.585	1050	
BAR20	122.693	1.350	Open Manhole	1200	55.000	121.343	150				
BAR21	122.253	1.425	Open Manhole	1200	55.001	120.828	225	55.000	120.903	150	
BAR22	121.805	1.425	Open Manhole	1200	56.000	120.380	225				
BAR23	121.669	1.425	Open Manhole	1200	56.001	120.244	225	56.000	120.244	225	
BAR24	121.614	1.500	Open Manhole	1200	55.002	120.114	300	55.001	120.189	225	
								56.001	120.189	225	
BAR25	121.394	1.575	Open Manhole	1500	55.003	119.819	375	55.002	119.894	300	
BAR26	121.316	1.575	Open Manhole	1500	55.004	119.741	375	55.003	119.741	375	
105	121.280	2.856	Open Manhole		39.015	118.424	1050	39.014	118.424	1050	
								55.004	119.099	375	
106	120.147	1.951	Junction		39.016	118.196	2500	39.015	118.196	1050	
107	116.547	1.000	Junction		39.017	115.547	2500	39.016	115.547	2500	
26	112.908	1.200	Junction		1.027	111.708	2500	1.026	111.708	375	
								39.017	112.408	2500	700
27	109.747	0.795	Junction		1.028	108.952	2500	1.027	108.953	2500	1
28	107.191	1.191	Junction		1.029	106.000	2500	1.028	106.000	2500	
29	98.477	1.477	Junction		1.030	97.000	2500	1.029	97.000	2500	
30	93.382	1.000	Junction		1.031	92.382	2500	1.030	92.723	2500	341
31	92.250	1.398	Junction		1.032	90.852	500	1.031	90.852	2500	
32	92.123	1.648	Junction		1.033	90.475	500	1.032	90.475	500	
33	92.123	2.300	Junction		1.034	89.823	450	1.033	90.123	500	
108	91.886	1.741	Junction		57.000	90.145	500				
109	91.886	1.862	Junction		57.001	90.024	500	57.000	90.024	500	

M-EC		Page 28
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Manhole Schedules for STORM.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
110	91.886	2.054	Junction		57.002	89.832	500	57.001	89.832	500	
109	91.886	2.320	Junction		1.035	89.566	300	1.034	89.566	450	
								57.002	89.716	500	
34	91.886	5.536	Junction	0	1.036	86.350	300	1.035	86.350	300	
35	89.607	3.367	Open Manhole	0		OUTFALL		1.036	86.240	300	

M-EC		Page 29
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

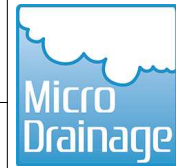
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	300	1	117.964	116.555	1.109	Open Manhole	1200
1.001	o	300	2	117.983	116.409	1.274	Open Manhole	1200
1.002	o	375	3	118.123	116.113	1.635	Open Manhole	1200
1.003	o	375	4	118.278	115.972	1.931	Open Manhole	1500
2.000	o	300	5	120.019	118.375	1.344	Open Manhole	1200
2.001	o	300	6	119.966	118.161	1.505	Open Manhole	1500
2.002	o	300	6	119.849	117.913	1.636	Open Manhole	1200
2.003	o	300	8	119.534	117.048	2.186	Open Manhole	1200
3.000	o	225	9.1	119.400	118.200	0.975	Open Manhole	1200
3.001	o	300	9	118.366	116.845	1.221	Open Manhole	1200
3.002	o	375	10	118.370	116.608	1.387	Open Manhole	1200
3.003	o	450	11	118.647	116.432	1.765	Open Manhole	1800
4.000	o	225	12	118.927	117.061	1.641	Open Manhole	1200
3.004	o	525	13	118.912	116.235	2.152	Open Manhole	1500
3.005	o	525	14	119.126	116.028	2.573	Open Manhole	1800
3.006	o	600	15	119.330	115.865	2.865	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	21.995	150.7	2	117.983	116.409	1.274	Open Manhole	1200
1.001	29.151	131.9	3	118.123	116.188	1.635	Open Manhole	1200
1.002	28.100	199.3	4	118.278	115.972	1.931	Open Manhole	1500
1.003	55.044	110.3	21	118.619	115.473	2.771	Open Manhole	1800
2.000	13.870	64.8	6	119.966	118.161	1.505	Open Manhole	1500
2.001	22.292	89.9	6	119.849	117.913	1.636	Open Manhole	1200
2.002	51.918	60.0	8	119.534	117.048	2.186	Open Manhole	1200
2.003	10.449	11.5	16	119.386	116.143	2.943	Open Manhole	1500
3.000	121.539	95.0	9	118.366	116.920	1.221	Open Manhole	1200
3.001	24.248	149.7	10	118.370	116.683	1.387	Open Manhole	1200
3.002	26.757	264.9	11	118.647	116.507	1.765	Open Manhole	1800
3.003	30.427	249.4	13	118.912	116.310	2.152	Open Manhole	1500
4.000	5.260	10.0	13	118.912	116.535	2.152	Open Manhole	1500
3.004	36.199	174.9	14	119.126	116.028	2.573	Open Manhole	1800
3.005	21.056	239.3	15	119.330	115.940	2.865	Open Manhole	1500
3.006	5.194	236.1	16	119.386	115.843	2.943	Open Manhole	1500

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
2.004	o	600	16	119.386	115.843	2.943	Open Manhole	1500
2.005	o	600	17	119.147	115.753	2.794	Open Manhole	1800
5.000	o	225	18	118.840	116.662	1.953	Open Manhole	1200
2.006	o	600	19	118.835	115.579	2.656	Open Manhole	1800
2.007	o	600	20	118.661	115.407	2.654	Open Manhole	1800
1.004	o	600	21	118.619	115.248	2.771	Open Manhole	1800
1.005	o	750	22	118.636	115.037	2.849	Open Manhole	1800
6.000	o	225	23	118.245	116.705	1.315	Open Manhole	1500
6.001	o	225	24	118.244	116.468	1.551	Open Manhole	1200
6.002	o	300	25	118.399	116.325	1.774	Open Manhole	1200
6.003	o	300	26	118.793	116.015	2.478	Open Manhole	1200
6.004	o	375	27	118.725	115.881	2.469	Open Manhole	1500
6.005	o	375	28	118.879	115.608	2.896	Open Manhole	1500
1.006	o	750	29	118.956	114.880	3.326	Open Manhole	1800
7.000	o	225	30	119.423	118.035	1.163	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
2.004	19.850	220.6	17	119.147	115.753	2.794	Open Manhole	1800
2.005	31.307	179.9	19	118.835	115.579	2.656	Open Manhole	1800
5.000	7.065	10.0	19	118.835	115.954	2.656	Open Manhole	1800
2.006	27.569	160.3	20	118.661	115.407	2.654	Open Manhole	1800
2.007	22.285	140.2	21	118.619	115.248	2.771	Open Manhole	1800
1.004	5.167	84.7	22	118.636	115.187	2.849	Open Manhole	1800
1.005	36.131	230.1	29	118.956	114.880	3.326	Open Manhole	1800
6.000	27.311	115.2	24	118.244	116.468	1.551	Open Manhole	1200
6.001	7.837	115.2	25	118.399	116.400	1.774	Open Manhole	1200
6.002	61.978	199.9	26	118.793	116.015	2.478	Open Manhole	1200
6.003	8.199	139.0	27	118.725	115.956	2.469	Open Manhole	1500
6.004	60.149	220.3	28	118.879	115.608	2.896	Open Manhole	1500
6.005	10.565	29.9	29	118.956	115.255	3.326	Open Manhole	1800
1.006	43.319	149.9	8	119.241	114.591	3.900	Open Manhole	1800
7.000	24.757	150.0	31	119.465	117.870	1.370	Open Manhole	1200

M-EC		Page 31
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.001	o	225	31	119.465	117.870	1.370	Open Manhole	1200
1.007	o	750	8	119.241	114.591	3.900	Open Manhole	1800
8.000	o	225	60	118.918	116.631	2.062	Open Manhole	1200
8.001	o	300	61	119.034	116.384	2.350	Open Manhole	1200
8.002	o	300	35	119.427	116.128	2.999	Open Manhole	1200
1.008	o	900	10	119.263	114.179	4.184	Open Manhole	1800
9.000	o	300	62	120.909	119.000	1.609	Open Manhole	1200
10.000	o	300	40	120.168	118.668	1.200	Open Manhole	1200
9.001	o	375	63	120.403	118.604	1.424	Open Manhole	1500
9.002	o	375	64	119.909	118.143	1.391	Open Manhole	1500
9.003	o	450	148	119.214	114.816	3.948	Open Manhole	1500
1.009	o	900	11	119.437	114.160	4.377	Open Manhole	1800
1.010	o	900	12	119.251	114.076	4.275	Open Manhole	1800
1.011	o	900	13	119.289	114.054	4.335	Open Manhole	1800

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
7.001	49.441	18.0	8	119.241	115.116	3.900	Open Manhole	1800
1.007	44.138	187.0	10	119.263	114.355	4.158	Open Manhole	1800
8.000	26.962	156.8	61	119.034	116.459	2.350	Open Manhole	1200
8.001	21.661	84.6	35	119.427	116.128	2.999	Open Manhole	1200
8.002	20.617	15.3	10	119.263	114.779	4.184	Open Manhole	1800
1.008	11.615	611.3	11	119.437	114.160	4.377	Open Manhole	1800
9.000	51.226	159.6	63	120.403	118.679	1.424	Open Manhole	1500
10.000	14.429	225.5	63	120.403	118.604	1.499	Open Manhole	1500
9.001	46.382	120.2	64	119.909	118.218	1.316	Open Manhole	1500
9.002	53.530	16.5	148	119.214	114.891	3.948	Open Manhole	1500
9.003	7.542	36.6	11	119.437	114.610	4.377	Open Manhole	1800
1.009	36.140	430.2	12	119.251	114.076	4.275	Open Manhole	1800
1.010	11.212	509.6	13	119.289	114.054	4.335	Open Manhole	1800
1.011	19.978	605.4	14	119.492	114.021	4.571	Open Manhole	1800

M-EC		Page 32
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

PIPELINE SCHEDULES for STORM.SWS


Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.012	o	1050	14	119.492	113.871	4.571	Open Manhole	1800
1.013	o	1050	15	119.688	113.820	4.818	Open Manhole	1800
1.014	o	1050	16	119.823	113.797	4.976	Open Manhole	1800
11.000	o	225	TWC16	119.141	117.616	1.300	Open Manhole	1200
11.001	o	225	TWC17	119.956	115.435	4.296	Open Manhole	1200
1.015	o	1200	17	119.793	113.670	4.923	Open Manhole	3000
1.016	o	1200	18	119.582	113.567	4.815	Open Manhole	1800
12.000	o	225	TWC1	119.101	117.576	1.300	Open Manhole	1200
12.001	o	225	TWC2	119.272	117.411	1.636	Open Manhole	1200
12.002	o	225	TWC3	119.237	117.145	1.867	Open Manhole	1200
12.003	o	225	TWC4	119.364	117.072	2.067	Open Manhole	1200
13.000	o	225	TWC5	119.590	118.065	1.300	Open Manhole	1200
13.001	o	225	TWC6	119.597	117.843	1.529	Open Manhole	1200
13.002	o	225	TWC7	119.659	117.673	1.761	Open Manhole	1200
12.004	o	375	TWC8	119.429	116.867	2.187	Open Manhole	1500
12.005	o	375	TWC9	119.483	116.793	2.315	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.012	19.835	388.9	15	119.688	113.820	4.818	Open Manhole	1800
1.013	14.784	642.8	16	119.823	113.797	4.976	Open Manhole	1800
1.014	23.987	461.3	17	119.793	113.745	4.998	Open Manhole	3000
11.000	57.844	26.5	TWC17	119.956	115.435	4.296	Open Manhole	1200
11.001	7.900	10.0	17	119.793	114.645	4.923	Open Manhole	3000
1.015	53.423	518.7	18	119.582	113.567	4.815	Open Manhole	1800
1.016	49.931	573.9	TWC11	119.407	113.480	4.727	Open Manhole	1800
12.000	27.630	167.5	TWC2	119.272	117.411	1.636	Open Manhole	1200
12.001	44.387	166.9	TWC3	119.237	117.145	1.867	Open Manhole	1200
12.002	12.161	166.6	TWC4	119.364	117.072	2.067	Open Manhole	1200
12.003	9.111	165.7	TWC8	119.429	117.017	2.187	Open Manhole	1500
13.000	37.003	166.7	TWC6	119.597	117.843	1.529	Open Manhole	1200
13.001	28.370	166.9	TWC7	119.659	117.673	1.761	Open Manhole	1200
13.002	30.695	46.8	TWC8	119.429	117.017	2.187	Open Manhole	1500
12.004	23.070	311.8	TWC9	119.483	116.793	2.315	Open Manhole	1500
12.005	14.979	312.1	TWC10	119.448	116.745	2.328	Open Manhole	1500



M-EC		Page 33
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
12.006	o	375	TWC10	119.448	116.745	2.328	Open Manhole	1500
1.017	o	1200	TWC11	119.407	113.467	4.740	Open Manhole	1800
1.018	o	1200	19	119.214	113.393	4.621	Open Manhole	1800
14.000	o	225	TWC12	118.709	117.184	1.300	Open Manhole	1200
14.001	o	225	TWC13	118.937	117.027	1.685	Open Manhole	1200
14.002	o	225	TWC14	119.108	116.054	2.829	Open Manhole	1200
1.019	o	1200	TWC15	119.102	113.128	4.774	Open Manhole	1800
15.000	o	300	65	118.596	117.069	1.227	Open Manhole	1200
16.000	o	225	136	119.199	117.989	0.985	Open Manhole	1200
16.001	o	225	137	118.881	117.682	0.974	Open Manhole	1200
16.002	o	300	138	118.903	117.419	1.184	Open Manhole	1200
15.001	o	375	66	118.994	116.811	1.808	Open Manhole	1500
15.002	o	375	67	119.258	116.669	2.214	Open Manhole	1500
17.000	o	300	9	118.535	117.284	0.951	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
12.006	17.793	104.1	TWC11	119.407	116.574	2.458	Open Manhole	1800
1.017	36.870	423.8	19	119.214	113.380	4.634	Open Manhole	1800
1.018	26.881	101.4	TWC15	119.102	113.128	4.774	Open Manhole	1800
14.000	26.224	167.0	TWC13	118.937	117.027	1.685	Open Manhole	1200
14.001	12.189	12.5	TWC14	119.108	116.054	2.829	Open Manhole	1200
14.002	3.141	10.0	TWC15	119.102	115.740	3.137	Open Manhole	1800
1.019	42.661	609.4	20	118.752	113.058	4.494	Open Manhole	1800
15.000	41.137	225.0	66	118.994	116.886	1.808	Open Manhole	1500
16.000	19.028	62.0	137	118.881	117.682	0.974	Open Manhole	1200
16.001	11.647	62.0	138	118.903	117.494	1.184	Open Manhole	1200
16.002	32.247	62.1	66	118.994	116.900	1.794	Open Manhole	1500
15.001	32.039	225.6	67	119.258	116.669	2.214	Open Manhole	1500
15.002	22.247	224.7	68	119.021	116.570	2.076	Open Manhole	1500
17.000	28.085	150.2	75	118.329	117.097	0.932	Open Manhole	1200

M-EC		Page 34
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
17.001	o	300	75	118.329	117.097	0.932	Open Manhole	1200
17.002	o	525	76	118.786	116.695	1.566	Open Manhole	1500
15.003	o	525	68	119.021	116.420	2.076	Open Manhole	1500
15.004	o	600	69	118.964	116.217	2.147	Open Manhole	1500
15.005	o	600	70	118.669	116.128	1.941	Open Manhole	1500
15.006	o	600	71	118.775	116.074	2.101	Open Manhole	1500
18.000	o	225	147	118.260	116.746	1.289	Open Manhole	1200
18.001	o	300	112	117.970	116.547	1.123	Open Manhole	1200
18.002	o	450	113	118.208	116.353	1.405	Open Manhole	1500
19.000	o	225	115	118.775	117.269	1.281	Open Manhole	1200
19.001	o	225	116	118.580	117.005	1.350	Open Manhole	1200
18.003	o	450	77	118.741	116.300	1.991	Open Manhole	1500
20.000	o	225	134	118.642	117.207	1.210	Open Manhole	1200
18.004	o	525	135	118.866	116.175	2.166	Open Manhole	1500
18.005	o	525	78	118.848	116.120	2.203	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
17.001	30.632	173.1	76	118.786	116.920	1.566	Open Manhole	1500
17.002	16.440	59.8	68	119.021	116.420	2.076	Open Manhole	1500
15.003	38.494	300.7	69	118.964	116.292	2.147	Open Manhole	1500
15.004	26.832	301.5	70	118.669	116.128	1.941	Open Manhole	1500
15.005	16.779	310.7	71	118.775	116.074	2.101	Open Manhole	1500
15.006	21.868	287.7	72	119.041	115.998	2.443	Open Manhole	1500
18.000	17.917	144.5	112	117.970	116.622	1.123	Open Manhole	1200
18.001	13.309	300.0	113	118.208	116.503	1.405	Open Manhole	1500
18.002	25.393	479.1	77	118.741	116.300	1.991	Open Manhole	1500
19.000	26.382	99.9	116	118.580	117.005	1.350	Open Manhole	1200
19.001	17.462	36.4	77	118.741	116.525	1.991	Open Manhole	1500
18.003	22.357	447.1	135	118.866	116.250	2.166	Open Manhole	1500
20.000	23.355	31.9	135	118.866	116.475	2.166	Open Manhole	1500
18.004	32.097	583.6	78	118.848	116.120	2.203	Open Manhole	1500
18.005	21.005	446.9	72	119.041	116.073	2.443	Open Manhole	1500

M-EC		Page 35
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
15.007	o	600	72	119.041	115.998	2.443	Open Manhole	1500
15.008	o	600	73	119.637	115.854	3.183	Open Manhole	1500
15.009	o	600	74	119.581	115.811	3.170	Open Manhole	1500
15.010	o	600	98	119.793	115.785	3.408	Open Manhole	1500
15.011	o	600	99	119.582	115.683	3.299	Open Manhole	1500
15.012	o	600	101	119.214	115.499	3.115	Open Manhole	1500
21.000	o	225	142	119.497	117.064	2.208	Open Manhole	1200
21.001	o	225	143	119.421	116.642	2.554	Open Manhole	1200
22.000	o	225	118	118.601	117.081	1.295	Open Manhole	1200
22.001	o	225	119	118.400	116.995	1.180	Open Manhole	1200
22.002	o	225	120	118.320	116.936	1.159	Open Manhole	1200
23.000	o	300	129	118.563	116.577	1.686	Open Manhole	1200
23.001	o	300	130	118.362	116.442	1.620	Open Manhole	1200
22.003	o	300	121	118.534	116.194	2.040	Open Manhole	1200
24.000	o	225	131	119.038	116.854	1.959	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
15.007	67.776	470.7	73	119.637	115.854	3.183	Open Manhole	1500
15.008	22.848	531.3	74	119.581	115.811	3.170	Open Manhole	1500
15.009	12.841	493.9	98	119.793	115.785	3.408	Open Manhole	1500
15.010	50.928	499.3	99	119.582	115.683	3.299	Open Manhole	1500
15.011	92.084	500.5	101	119.214	115.499	3.115	Open Manhole	1500
15.012	66.502	500.0	20	118.752	115.366	2.786	Open Manhole	1800
21.000	48.953	116.0	143	119.421	116.642	2.554	Open Manhole	1200
21.001	60.995	71.6	149	118.643	115.790	2.628	Open Manhole	1800
22.000	16.948	197.1	119	118.400	116.995	1.180	Open Manhole	1200
22.001	13.051	200.8	120	118.320	116.930	1.165	Open Manhole	1200
22.002	42.264	63.2	121	118.534	116.267	2.042	Open Manhole	1200
23.000	17.745	136.5	130	118.362	116.447	1.615	Open Manhole	1200
23.001	23.421	94.4	121	118.534	116.194	2.040	Open Manhole	1200
22.003	7.058	104.9	122	118.603	116.127	2.176	Open Manhole	1500
24.000	37.519	138.2	132	118.802	116.582	1.995	Open Manhole	1200

M-EC		Page 36
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
24.001	o	225	132	118.802	116.557	2.020	Open Manhole	1200
24.002	o	300	133	118.756	116.440	2.016	Open Manhole	1200
22.004	o	450	122	118.603	115.974	2.179	Open Manhole	1500
22.005	o	450	123	118.806	115.878	2.478	Open Manhole	1500
25.000	o	225	139	119.320	116.661	2.434	Open Manhole	1200
25.001	o	225	140	119.253	116.549	2.479	Open Manhole	1200
22.006	o	450	124	118.985	115.812	2.723	Open Manhole	1500
22.007	o	600	125	119.236	115.606	3.030	Open Manhole	1500
22.008	o	750	126	119.362	115.409	3.203	Open Manhole	1800
22.009	o	750	127	119.300	115.313	3.237	Open Manhole	1800
21.002	o	750	149	118.643	115.265	2.628	Open Manhole	1800
1.020	o	375	20	118.752	113.179	5.198	Open Manhole	1800
1.021	ooo	375	108	118.861	113.170	5.316	Open Manhole	1800
1.022	ooo	375	21	118.659	113.034	5.250	Open Manhole	1800
1.023	ooo	375	22	118.850	112.846	5.629	Open Manhole	1800

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
24.001	10.832	257.9	133	118.756	116.515	2.016	Open Manhole	1200
24.002	18.385	56.7	122	118.603	116.116	2.187	Open Manhole	1500
22.004	21.619	207.3	123	118.806	115.870	2.486	Open Manhole	1500
22.005	21.418	301.7	124	118.985	115.807	2.728	Open Manhole	1500
25.000	27.985	310.7	140	119.253	116.571	2.457	Open Manhole	1200
25.001	32.368	63.2	124	118.985	116.037	2.723	Open Manhole	1500
22.006	20.202	301.5	125	119.236	115.745	3.041	Open Manhole	1500
22.007	14.239	303.0	126	119.362	115.559	3.203	Open Manhole	1800
22.008	28.880	300.8	127	119.300	115.313	3.237	Open Manhole	1800
22.009	21.849	753.4	149	118.643	115.284	2.609	Open Manhole	1800
21.002	45.188	168.0	20	118.752	114.996	3.006	Open Manhole	1800
1.020	6.998	500.0	108	118.861	113.165	5.321	Open Manhole	1800
1.021	65.592	500.0	21	118.659	113.039	5.245	Open Manhole	1800
1.022	94.236	501.3	22	118.850	112.846	5.629	Open Manhole	1800
1.023	44.393	498.8	23	118.546	112.757	5.414	Open Manhole	1800

M-EC		Page 37
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
26.000	o	675	89	122.034	119.263	2.096	Open Manhole	1800
26.001	o	675	90	121.458	118.932	1.851	Open Manhole	1500
27.000	o	300	200	121.333	119.516	1.517	Open Manhole	1200
27.001	o	525	109	121.248	118.754	1.969	Open Manhole	1500
26.002	o	750	91	120.989	118.498	1.741	Open Manhole	1800
28.000	o	300	TWD27	120.890	119.317	1.273	Open Manhole	1200
26.003	o	825	91A	120.643	118.337	1.481	Open Manhole	1800
26.004	o	825	92	120.446	118.239	1.382	Open Manhole	1800
26.005	o	825	93	120.428	118.178	1.425	Open Manhole	1800
29.000	o	225	TWD29	120.865	119.340	1.300	Open Manhole	1200
29.001	o	300	TWD30	121.025	119.158	1.567	Open Manhole	1200
29.002	o	300	TWD31	120.865	119.048	1.517	Open Manhole	1200
26.006	o	825	94	120.923	118.041	2.057	Open Manhole	1800
26.007	o	825	95	121.355	117.930	2.600	Open Manhole	1800

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
26.000	38.089	115.1	90	121.458	118.932	1.851	Open Manhole	1500
26.001	27.675	77.1	91	120.989	118.573	1.741	Open Manhole	1800
27.000	21.118	39.3	109	121.248	118.979	1.969	Open Manhole	1500
27.001	12.672	408.8	91	120.989	118.723	1.741	Open Manhole	1800
26.002	21.799	253.5	91A	120.643	118.412	1.481	Open Manhole	1800
28.000	27.255	59.9	91A	120.643	118.862	1.481	Open Manhole	1800
26.003	19.759	201.6	92	120.446	118.239	1.382	Open Manhole	1800
26.004	13.801	226.2	93	120.428	118.178	1.425	Open Manhole	1800
26.005	30.846	225.2	94	120.923	118.041	2.057	Open Manhole	1800
29.000	17.850	166.8	TWD30	121.025	119.233	1.567	Open Manhole	1200
29.001	26.252	238.7	TWD31	120.865	119.048	1.517	Open Manhole	1200
29.002	5.621	11.7	94	120.923	118.566	2.057	Open Manhole	1800
26.006	25.081	226.0	95	121.355	117.930	2.600	Open Manhole	1800
26.007	20.759	144.2	95A	121.512	117.786	2.901	Open Manhole	1800

M-EC		Page 38
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
30.000	o	300	201	121.146	119.141	1.705	Open Manhole	1200
30.001	o	300	202	120.925	118.890	1.735	Open Manhole	1200
30.002	o	300	203	121.038	118.801	1.937	Open Manhole	1200
30.003	o	375	204	121.214	118.608	2.231	Open Manhole	1500
30.004	o	375	117	121.279	118.296	2.608	Open Manhole	1500
26.008	o	825	95A	121.512	117.786	2.901	Open Manhole	1800
26.009	o	825	96	121.128	117.608	2.695	Open Manhole	1800
26.010	o	825	97	120.413	117.213	2.375	Open Manhole	1800
31.000	o	825	121	120.529	116.795	2.909	Open Manhole	1800
32.000	o	225	TWD4	121.561	120.036	1.300	Open Manhole	1200
32.001	o	225	TWD5	121.349	119.824	1.300	Open Manhole	1200
33.000	o	300	TWD16	121.006	119.411	1.295	Open Manhole	1200
32.002	o	375	TWD6	120.940	119.213	1.352	Open Manhole	1500
34.000	o	225	TWD17	121.007	119.482	1.300	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
30.000	37.630	149.9	202	120.925	118.890	1.735	Open Manhole	1200
30.001	11.922	134.0	203	121.038	118.801	1.937	Open Manhole	1200
30.002	19.297	163.5	204	121.214	118.683	2.231	Open Manhole	1500
30.003	20.172	64.7	117	121.279	118.296	2.608	Open Manhole	1500
30.004	13.634	227.2	95A	121.512	118.236	2.901	Open Manhole	1800
26.008	42.291	237.6	96	121.128	117.608	2.695	Open Manhole	1800
26.009	88.922	225.1	97	120.413	117.213	2.375	Open Manhole	1800
26.010	69.055	153.5	98	119.983	116.763	2.395	Open Manhole	1800
31.000	16.270	508.4	98	119.983	116.763	2.395	Open Manhole	1800
32.000	19.418	91.6	TWD5	121.349	119.824	1.300	Open Manhole	1200
32.001	30.994	67.2	TWD6	120.940	119.363	1.352	Open Manhole	1500
33.000	29.187	237.3	TWD6	120.940	119.288	1.352	Open Manhole	1500
32.002	42.766	289.0	TWD7	121.119	119.065	1.679	Open Manhole	1500
34.000	22.375	83.8	TWD7	121.119	119.215	1.679	Open Manhole	1500

M-EC		Page 39
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
35.000	o	225	TWD18	120.938	119.413	1.300	Open Manhole	1200
32.003	o	375	TWD7	121.119	119.065	1.679	Open Manhole	1500
32.004	o	450	TWD8	120.558	118.533	1.575	Open Manhole	1500
32.005	o	450	TWD9	120.379	118.401	1.528	Open Manhole	1500
32.006	o	450	TWD10	120.374	118.351	1.573	Open Manhole	1500
36.000	o	225	TWD19	121.012	119.496	1.291	Open Manhole	1200
32.007	o	600	TWD11	120.480	117.121	2.759	Open Manhole	1500
37.000	o	225	TWD20	121.075	119.261	1.589	Open Manhole	1200
37.001	o	300	TWD21	120.750	118.971	1.479	Open Manhole	1200
37.002	o	300	TWD22	120.794	118.766	1.728	Open Manhole	1500
37.003	o	375	TWD23	120.299	118.485	1.439	Open Manhole	1500
37.004	o	375	TWD24	120.086	118.411	1.300	Open Manhole	1500
37.005	o	375	TWD25	120.583	117.923	2.285	Open Manhole	1500
32.008	o	675	TWD12	120.329	117.025	2.629	Open Manhole	1500
38.000	o	225	TWD26	120.750	119.225	1.300	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
35.000	26.915	135.9	TWD7	121.119	119.215	1.679	Open Manhole	1500
32.003	58.018	127.0	TWD8	120.558	118.608	1.575	Open Manhole	1500
32.004	19.827	150.2	TWD9	120.379	118.401	1.528	Open Manhole	1500
32.005	7.578	151.6	TWD10	120.374	118.351	1.573	Open Manhole	1500
32.006	9.050	150.8	TWD11	120.480	118.291	1.739	Open Manhole	1500
36.000	52.197	53.2	TWD11	120.480	118.515	1.740	Open Manhole	1500
32.007	10.550	502.4	TWD12	120.329	117.100	2.629	Open Manhole	1500
37.000	35.882	166.9	TWD21	120.750	119.046	1.479	Open Manhole	1200
37.001	48.729	237.7	TWD22	120.794	118.766	1.728	Open Manhole	1500
37.002	48.936	237.6	TWD23	120.299	118.560	1.439	Open Manhole	1500
37.003	17.718	239.4	TWD24	120.086	118.411	1.300	Open Manhole	1500
37.004	35.930	73.6	TWD25	120.583	117.923	2.285	Open Manhole	1500
37.005	38.240	63.9	TWD12	120.329	117.325	2.629	Open Manhole	1500
32.008	42.626	501.5	TWD13	120.584	116.940	2.969	Open Manhole	1800
38.000	19.155	22.3	TWD13	120.584	118.365	1.994	Open Manhole	1800

M-EC		Page 40
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

PIPELINE SCHEDULES for STORM.SWS


Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
32.009	o	750	TWD13	120.584	116.865	2.969	Open Manhole	1800
32.010	o	750	TWD14	120.218	116.797	2.671	Open Manhole	1800
32.011	o	750	TWD15	119.970	116.745	2.475	Open Manhole	1800
26.011	o	1050	98	119.983	116.538	2.395	Open Manhole	1800
26.012	o	1050	99	119.492	115.970	2.472	Open Manhole	1800
26.013	o	1050	100	119.039	115.679	2.310	Open Manhole	1800
1.024	ooo	375	23	118.546	112.757	5.414	Open Manhole	1800
1.025	ooo	375	24	117.029	112.551	4.103	Open Manhole	1800
1.026	ooo	375	25	114.893	112.414	2.104	Open Manhole	1800
39.000	o	525	79	124.059	121.648	1.886	Open Manhole	1800
39.001	o	525	80	123.264	121.234	1.505	Open Manhole	1800
39.002	o	675	81	122.848	120.652	1.521	Open Manhole	1500
40.000	o	225	130	122.444	120.976	1.243	Open Manhole	1200
41.000	o	150	BAR1	123.005	121.655	1.200	Open Manhole	1200
41.001	o	375	131	122.765	120.799	1.591	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
32.009	34.074	501.1	TWD14	120.218	116.797	2.671	Open Manhole	1800
32.010	25.587	501.7	TWD15	119.970	116.746	2.474	Open Manhole	1800
32.011	17.550	501.4	98	119.983	116.710	2.523	Open Manhole	1800
26.011	75.176	132.4	99	119.492	115.970	2.472	Open Manhole	1800
26.012	28.696	98.6	100	119.039	115.679	2.310	Open Manhole	1800
26.013	69.020	1015.0	23	118.546	115.611	1.885	Open Manhole	1800
1.024	100.279	486.8	24	117.029	112.551	4.103	Open Manhole	1800
1.025	65.979	481.6	25	114.893	112.414	2.104	Open Manhole	1800
1.026	54.354	77.0	26	112.908	111.708	0.825	Junction	
39.000	33.202	80.2	80	123.264	121.234	1.505	Open Manhole	1800
39.001	31.189	72.2	81	122.848	120.802	1.521	Open Manhole	1500
39.002	21.572	111.8	81A	122.625	120.459	1.491	Open Manhole	1500
40.000	11.475	171.3	81A	122.625	120.909	1.491	Open Manhole	1500
41.000	21.555	34.2	131	122.765	121.024	1.591	Open Manhole	1500
41.001	9.170	229.3	81A	122.625	120.759	1.491	Open Manhole	1500



M-EC		Page 41
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
39.003	o	675	81A	122.625	120.459	1.491	Open Manhole	1500
42.000	o	300	133	122.209	120.646	1.263	Open Manhole	1200
39.004	o	750	82	122.443	120.155	1.538	Open Manhole	1800
39.005	o	750	83	122.543	120.085	1.708	Open Manhole	1800
43.000	o	150	BAR2	122.829	121.479	1.200	Open Manhole	1200
43.001	o	375	136	122.387	120.317	1.695	Open Manhole	1500
39.006	o	750	83A	122.394	119.920	1.724	Open Manhole	1800
44.000	o	450	206	121.837	120.407	0.980	Open Manhole	1500
44.001	o	450	207	121.873	120.369	1.053	Open Manhole	1500
44.002	o	450	208	122.049	120.326	1.272	Open Manhole	1500
44.003	o	450	209	122.340	120.254	1.636	Open Manhole	1500
45.000	o	225	210	122.285	120.860	1.200	Open Manhole	1200
45.001	o	300	211	122.142	120.642	1.200	Open Manhole	1200
45.002	o	375	212	122.262	120.381	1.506	Open Manhole	1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
39.003	25.625	111.9	82	122.443	120.230	1.538	Open Manhole	1800
42.000	9.355	228.2	82	122.443	120.605	1.538	Open Manhole	1800
39.004	17.500	250.0	83	122.543	120.085	1.708	Open Manhole	1800
39.005	37.636	228.1	83A	122.394	119.920	1.724	Open Manhole	1800
43.000	28.087	30.0	136	122.387	120.542	1.695	Open Manhole	1500
43.001	6.882	312.8	83A	122.394	120.295	1.724	Open Manhole	1800
39.006	33.426	230.5	84	122.072	119.775	1.547	Open Manhole	1800
44.000	15.415	410.0	207	121.873	120.369	1.053	Open Manhole	1500
44.001	17.703	410.0	208	122.049	120.326	1.272	Open Manhole	1500
44.002	29.516	410.0	209	122.340	120.254	1.636	Open Manhole	1500
44.003	9.116	410.0	213	122.411	120.232	1.729	Open Manhole	1500
45.000	14.512	101.5	211	122.142	120.717	1.200	Open Manhole	1200
45.001	45.905	246.8	212	122.262	120.456	1.506	Open Manhole	1500
45.002	11.336	153.2	213	122.411	120.307	1.729	Open Manhole	1500

M-EC		Page 42
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
44.004	o	450	213	122.411	120.232	1.729	Open Manhole	1500
44.005	o	450	214	122.490	120.195	1.844	Open Manhole	1500
44.006	o	450	215	122.248	120.131	1.667	Open Manhole	1500
44.007	o	450	138	122.037	120.107	1.480	Open Manhole	1500
39.007	o	825	84	122.072	119.700	1.547	Open Manhole	1800
46.000	o	225	BAR4	122.909	121.484	1.200	Open Manhole	1200
46.001	o	225	BAR5	122.688	121.263	1.200	Open Manhole	1200
47.000	o	150	BAR6	123.351	122.001	1.200	Open Manhole	1200
47.001	o	225	BAR7	123.071	121.646	1.200	Open Manhole	1200
47.002	o	225	BAR8	122.927	121.502	1.200	Open Manhole	1200
46.002	o	300	BAR9	122.579	121.079	1.200	Open Manhole	1200
46.003	o	300	BAR10	122.501	121.001	1.200	Open Manhole	1200
46.004	o	450	140	122.061	120.045	1.566	Open Manhole	1500
39.008	o	825	85	122.114	119.643	1.646	Open Manhole	1800
39.009	o	825	86	122.196	119.509	1.862	Open Manhole	1800

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
44.004	14.982	410.0	214	122.490	120.195	1.844	Open Manhole	1500
44.005	26.565	410.0	215	122.248	120.131	1.667	Open Manhole	1500
44.006	10.000	410.0	138	122.037	120.106	1.481	Open Manhole	1500
44.007	9.640	301.3	84	122.072	120.075	1.547	Open Manhole	1800
39.007	17.177	301.4	85	122.114	119.643	1.646	Open Manhole	1800
46.000	37.524	169.8	BAR5	122.688	121.263	1.200	Open Manhole	1200
46.001	18.648	169.5	BAR9	122.579	121.153	1.201	Open Manhole	1200
47.000	28.051	99.8	BAR7	123.071	121.720	1.201	Open Manhole	1200
47.001	24.455	169.8	BAR8	122.927	121.502	1.200	Open Manhole	1200
47.002	23.090	66.4	BAR9	122.579	121.154	1.200	Open Manhole	1200
46.002	18.508	240.4	BAR10	122.501	121.002	1.199	Open Manhole	1200
46.003	31.075	38.6	140	122.061	120.195	1.566	Open Manhole	1500
46.004	8.275	306.5	85	122.114	120.018	1.646	Open Manhole	1800
39.008	21.765	162.4	86	122.196	119.509	1.862	Open Manhole	1800
39.009	48.154	264.6	87	121.870	119.327	1.718	Open Manhole	1800

M-EC		Page 43
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.000	o	150	BAR3	122.148	120.798	1.200	Open Manhole	1200
48.001	o	450	143	121.856	119.724	1.682	Open Manhole	1500
49.000	o	300	216	122.085	120.370	1.415	Open Manhole	1200
49.001	o	450	144	121.989	119.745	1.794	Open Manhole	1500
39.010	o	900	87	121.870	119.252	1.718	Open Manhole	1800
39.011	o	900	88	121.986	119.107	1.979	Open Manhole	1800
39.012	o	900	103	121.952	118.951	2.101	Open Manhole	1800
50.000	o	150	BAR11	122.645	121.295	1.200	Open Manhole	1200
50.001	o	225	BAR12	122.338	120.913	1.200	Open Manhole	1200
51.000	o	225	BAR13	122.168	120.743	1.200	Open Manhole	1200
50.002	o	225	BAR14	122.119	120.694	1.200	Open Manhole	1200
52.000	o	150	BAR15	122.151	120.801	1.200	Open Manhole	1200
52.001	o	225	BAR16	121.926	120.501	1.200	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
48.000	20.088	26.0	143	121.856	120.024	1.682	Open Manhole	1500
48.001	6.755	307.0	87	121.870	119.702	1.718	Open Manhole	1800
49.000	7.522	15.8	144	121.989	119.895	1.794	Open Manhole	1500
49.001	13.333	310.1	87	121.870	119.702	1.718	Open Manhole	1800
39.010	16.370	112.9	88	121.986	119.107	1.979	Open Manhole	1800
39.011	32.808	210.3	103	121.952	118.951	2.101	Open Manhole	1800
39.012	44.355	245.1	104	121.882	118.770	2.212	Open Manhole	1800
50.000	29.808	97.1	BAR12	122.338	120.988	1.200	Open Manhole	1200
50.001	18.191	83.1	BAR14	122.119	120.694	1.200	Open Manhole	1200
51.000	8.415	168.3	BAR14	122.119	120.693	1.201	Open Manhole	1200
50.002	23.826	79.2	BAR17	121.818	120.393	1.200	Open Manhole	1200
52.000	22.530	100.1	BAR16	121.926	120.576	1.200	Open Manhole	1200
52.001	10.758	99.6	BAR17	121.818	120.393	1.200	Open Manhole	1200

M-EC		Page 44
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
50.003	o	300	BAR17	121.818	120.318	1.200	Open Manhole	1200
50.004	o	300	BAR18	121.741	120.241	1.200	Open Manhole	1200
50.005	o	300	BAR19	121.649	120.149	1.200	Open Manhole	1200
50.006	o	450	149	122.198	119.275	2.473	Open Manhole	1500
53.000	o	225	TWD1	121.814	120.389	1.200	Open Manhole	1200
54.000	o	225	TWD3	122.082	120.657	1.200	Open Manhole	1200
53.001	o	225	TWD2	121.446	120.021	1.200	Open Manhole	1200
39.013	o	1050	104	121.882	118.620	2.212	Open Manhole	1800
39.014	o	1050	104A	121.774	118.585	2.139	Open Manhole	1800
55.000	o	150	BAR20	122.693	121.343	1.200	Open Manhole	1200
55.001	o	225	BAR21	122.253	120.828	1.200	Open Manhole	1200
56.000	o	225	BAR22	121.805	120.380	1.200	Open Manhole	1200
56.001	o	225	BAR23	121.669	120.244	1.200	Open Manhole	1200
55.002	o	300	BAR24	121.614	120.114	1.200	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
50.003	18.281	240.5	BAR18	121.741	120.242	1.199	Open Manhole	1200
50.004	22.279	239.6	BAR19	121.649	120.148	1.201	Open Manhole	1200
50.005	22.998	31.8	149	122.198	119.425	2.473	Open Manhole	1500
50.006	8.593	156.2	104	121.882	119.220	2.212	Open Manhole	1800
53.000	61.476	167.1	TWD2	121.446	120.021	1.200	Open Manhole	1200
54.000	19.224	30.2	TWD2	121.446	120.021	1.200	Open Manhole	1200
53.001	15.063	26.2	104	121.882	119.445	2.212	Open Manhole	1800
39.013	17.746	507.0	104A	121.774	118.585	2.139	Open Manhole	1800
39.014	80.960	502.9	105	121.280	118.424	1.806	Open Manhole	1800
55.000	42.845	97.4	BAR21	122.253	120.903	1.200	Open Manhole	1200
55.001	54.385	85.1	BAR24	121.614	120.189	1.200	Open Manhole	1200
56.000	23.054	169.5	BAR23	121.669	120.244	1.200	Open Manhole	1200
56.001	9.371	170.4	BAR24	121.614	120.189	1.200	Open Manhole	1200
55.002	34.389	156.3	BAR25	121.394	119.894	1.200	Open Manhole	1500

M-EC		Page 45
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
55.003	o	375	BAR25	121.394	119.819	1.200	Open Manhole	1500
55.004	o	375	BAR26	121.316	119.741	1.200	Open Manhole	1500
39.015	o	1050	105	121.280	118.424	1.806	Open Manhole	1800
39.016	3 \=/	2500	106	120.147	118.196	1.801	Junction	
39.017	3 \=/	2500	107	116.547	115.547	0.850	Junction	
1.027	3 \=/	2500	26	112.908	111.708	1.050	Junction	
1.028	3 \=/	2500	27	109.747	108.952	0.645	Junction	
1.029	3 \=/	2500	28	107.191	106.000	1.041	Junction	
1.030	3 \=/	2500	29	98.477	97.000	1.327	Junction	
1.031	3 \=/	2500	30	93.382	92.382	0.850	Junction	
1.032	3 \=/	500	31	92.250	90.852	1.248	Junction	
1.033	3 \=/	500	32	92.123	90.475	1.498	Junction	
1.034	o	450	33	92.123	89.823	1.850	Junction	
57.000	3 \=/	500	108	91.886	90.145	1.591	Junction	
57.001	3 \=/	500	109	91.886	90.024	1.712	Junction	
57.002	3 \=/	500	110	91.886	89.832	1.904	Junction	
1.035	o	300	109	91.886	89.566	2.020	Junction	

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
55.003	18.750	240.4	BAR26	121.316	119.741	1.200	Open Manhole	1500
55.004	17.209	26.8	105	121.280	119.099	1.806	Open Manhole	1800
39.015	78.757	345.4	106	120.147	118.196	0.901	Junction	
39.016	90.127	34.0	107	116.547	115.547	0.850	Junction	
39.017	90.000	28.7	26	112.908	112.408	0.350	Junction	
1.027	55.103	20.0	27	109.747	108.953	0.644	Junction	
1.028	34.897	11.8	28	107.191	106.000	1.041	Junction	
1.029	90.000	10.0	29	98.477	97.000	1.327	Junction	
1.030	84.302	19.7	30	93.382	92.723	0.509	Junction	
1.031	92.048	60.2	31	92.250	90.852	1.248	Junction	
1.032	65.878	174.7	32	92.123	90.475	1.498	Junction	
1.033	35.206	100.0	33	92.123	90.123	1.850	Junction	
1.034	44.765	174.2	109	91.886	89.566	1.870	Junction	
57.000	60.341	498.7	109	91.886	90.024	1.712	Junction	
57.001	96.145	500.8	110	91.886	89.832	1.904	Junction	
57.002	58.234	502.0	109	91.886	89.716	2.020	Junction	
1.035	68.558	21.3	34	91.886	86.350	5.236	Junction	

M-EC		Page 46
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

PIPELINE SCHEDULES for STORM.SWS

Upstream Manhole

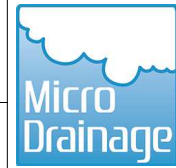
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.036	o	300	34	91.886	86.350	5.236	Junction	

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.036	19.339	175.8	35	89.607	86.240	3.067	Open Manhole	0

Wellington House  
 Leicester Road Ibstock  
 Leics LE67 6HP

Longford Park  
 Bodicote, Banbury  
 Site-wide Storm Water Network



Date 26.09.16  
 File 2016-09-23 SITE WIDE CA...


Designed by KA  
 Checked by CP

Micro Drainage

Network 2016.1

Area Summary for STORM.SWS


Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.100	0.100	0.100
1.001	-	-	100	0.030	0.030	0.030
1.002	-	-	100	0.000	0.000	0.000
1.003	-	-	100	0.249	0.249	0.249
2.000	-	-	100	0.130	0.130	0.130
2.001	-	-	100	0.147	0.147	0.147
2.002	-	-	100	0.040	0.040	0.040
2.003	-	-	100	0.080	0.080	0.080
3.000	-	-	100	0.181	0.181	0.181
3.001	-	-	100	0.000	0.000	0.000
3.002	-	-	100	0.060	0.060	0.060
3.003	-	-	100	0.220	0.220	0.220
4.000	-	-	100	0.150	0.150	0.150
3.004	-	-	100	0.000	0.000	0.000
3.005	-	-	100	0.225	0.225	0.225
3.006	-	-	100	0.021	0.021	0.021
2.004	-	-	100	0.000	0.000	0.000
2.005	-	-	100	0.174	0.174	0.174
5.000	-	-	100	0.084	0.084	0.084
2.006	-	-	100	0.063	0.063	0.063
2.007	-	-	100	0.085	0.085	0.085
1.004	-	-	100	0.000	0.000	0.000
1.005	-	-	100	0.281	0.281	0.281
6.000	-	-	100	0.121	0.121	0.121
6.001	-	-	100	0.000	0.000	0.000
6.002	-	-	100	0.076	0.076	0.076
6.003	-	-	100	0.072	0.072	0.072
6.004	-	-	100	0.120	0.120	0.120
6.005	-	-	100	0.000	0.000	0.000
1.006	-	-	100	0.201	0.201	0.201
7.000	-	-	100	0.080	0.080	0.080
7.001	-	-	100	0.100	0.100	0.100
1.007	-	-	100	0.037	0.037	0.037
8.000	-	-	100	0.054	0.054	0.054
8.001	-	-	100	0.008	0.008	0.008
8.002	-	-	100	0.028	0.028	0.028
1.008	-	-	100	0.000	0.000	0.000
9.000	-	-	100	0.197	0.197	0.197
10.000	-	-	100	0.580	0.580	0.580
9.001	-	-	100	0.077	0.077	0.077
9.002	-	-	100	0.229	0.229	0.229
9.003	-	-	100	0.029	0.029	0.029
1.009	-	-	100	0.070	0.070	0.070
1.010	-	-	100	0.070	0.070	0.070
1.011	-	-	100	0.030	0.030	0.030
1.012	-	-	100	0.030	0.030	0.030
1.013	-	-	100	0.000	0.000	0.000
1.014	-	-	100	0.000	0.000	0.000
11.000	-	-	100	0.244	0.244	0.244
11.001	-	-	100	0.000	0.000	0.000
1.015	-	-	100	0.000	0.000	0.000

M-EC		Page 48
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Area Summary for STORM.SWS

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.016	-	-	100	0.000	0.000	0.000
12.000	-	-	100	0.081	0.081	0.081
12.001	-	-	100	0.036	0.036	0.036
12.002	-	-	100	0.116	0.116	0.116
12.003	-	-	100	0.000	0.000	0.000
13.000	-	-	100	0.140	0.140	0.140
13.001	-	-	100	0.112	0.112	0.112
13.002	-	-	100	0.066	0.066	0.066
12.004	-	-	100	0.062	0.062	0.062
12.005	-	-	100	0.059	0.059	0.059
12.006	-	-	100	0.023	0.023	0.023
1.017	-	-	100	0.000	0.000	0.000
1.018	-	-	100	0.000	0.000	0.000
14.000	-	-	100	0.049	0.049	0.049
14.001	-	-	100	0.043	0.043	0.043
14.002	-	-	100	0.092	0.092	0.092
1.019	-	-	100	0.000	0.000	0.000
15.000	-	-	100	0.198	0.198	0.198
16.000	-	-	100	0.063	0.063	0.063
16.001	-	-	100	0.004	0.004	0.004
16.002	-	-	100	0.055	0.055	0.055
15.001	-	-	100	0.106	0.106	0.106
15.002	-	-	100	0.055	0.055	0.055
17.000	-	-	100	0.017	0.017	0.017
17.001	-	-	100	0.096	0.096	0.096
17.002	-	-	100	0.103	0.103	0.103
15.003	-	-	100	0.088	0.088	0.088
15.004	-	-	100	0.164	0.164	0.164
15.005	-	-	100	0.000	0.000	0.000
15.006	-	-	100	0.155	0.155	0.155
18.000	-	-	100	0.040	0.040	0.040
18.001	-	-	100	0.052	0.052	0.052
18.002	-	-	100	0.028	0.028	0.028
19.000	-	-	100	0.026	0.026	0.026
19.001	-	-	100	0.048	0.048	0.048
18.003	-	-	100	0.024	0.024	0.024
20.000	-	-	100	0.086	0.086	0.086
18.004	-	-	100	0.073	0.073	0.073
18.005	-	-	100	0.054	0.054	0.054
15.007	-	-	100	0.069	0.069	0.069
15.008	-	-	100	0.086	0.086	0.086
15.009	-	-	100	0.000	0.000	0.000
15.010	-	-	100	0.000	0.000	0.000
15.011	-	-	100	0.000	0.000	0.000
15.012	-	-	100	0.000	0.000	0.000
21.000	-	-	100	0.100	0.100	0.100
21.001	-	-	100	0.050	0.050	0.050
22.000	-	-	100	0.007	0.007	0.007
22.001	-	-	100	0.039	0.039	0.039
22.002	-	-	100	0.093	0.093	0.093
23.000	-	-	100	0.079	0.079	0.079



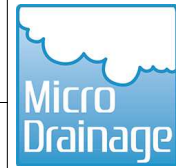
M-EC		Page 49
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Area Summary for STORM.SWS

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
23.001	-	-	100	0.017	0.017	0.017
22.003	-	-	100	0.074	0.074	0.074
24.000	-	-	100	0.135	0.135	0.135
24.001	-	-	100	0.043	0.043	0.043
24.002	-	-	100	0.031	0.031	0.031
22.004	-	-	100	0.037	0.037	0.037
22.005	-	-	100	0.079	0.079	0.079
25.000	-	-	100	0.094	0.094	0.094
25.001	-	-	100	0.116	0.116	0.116
22.006	-	-	100	0.041	0.041	0.041
22.007	-	-	100	0.000	0.000	0.000
22.008	-	-	100	0.060	0.060	0.060
22.009	-	-	100	0.000	0.000	0.000
21.002	-	-	100	0.000	0.000	0.000
1.020	-	-	100	0.000	0.000	0.000
1.021	-	-	100	0.000	0.000	0.000
1.022	-	-	100	0.000	0.000	0.000
1.023	-	-	100	0.000	0.000	0.000
26.000	-	-	100	0.184	0.184	0.184
26.001	-	-	100	0.034	0.034	0.034
27.000	-	-	100	0.105	0.105	0.105
27.001	-	-	100	0.013	0.013	0.013
26.002	-	-	100	0.000	0.000	0.000
28.000	-	-	100	0.214	0.214	0.214
26.003	-	-	100	0.041	0.041	0.041
26.004	-	-	100	0.082	0.082	0.082
26.005	-	-	100	0.000	0.000	0.000
29.000	-	-	100	0.098	0.098	0.098
29.001	-	-	100	0.064	0.064	0.064
29.002	-	-	100	0.055	0.055	0.055
26.006	-	-	100	0.008	0.008	0.008
26.007	-	-	100	0.027	0.027	0.027
30.000	-	-	100	0.143	0.143	0.143
30.001	-	-	100	0.051	0.051	0.051
30.002	-	-	100	0.142	0.142	0.142
30.003	-	-	100	0.059	0.059	0.059
30.004	-	-	100	0.025	0.025	0.025
26.008	-	-	100	0.078	0.078	0.078
26.009	-	-	100	0.000	0.000	0.000
26.010	-	-	100	0.000	0.000	0.000
31.000	-	-	100	0.912	0.912	0.912
32.000	-	-	100	0.057	0.057	0.057
32.001	-	-	100	0.068	0.068	0.068
33.000	-	-	100	0.208	0.208	0.208
32.002	-	-	100	0.026	0.026	0.026
34.000	-	-	100	0.078	0.078	0.078
35.000	-	-	100	0.055	0.055	0.055
32.003	-	-	100	0.035	0.035	0.035
32.004	-	-	100	0.123	0.123	0.123
32.005	-	-	100	0.044	0.044	0.044
32.006	-	-	100	0.008	0.008	0.008

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1


Area Summary for STORM.SWS

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
36.000	-	-	100	0.207	0.207	0.207
32.007	-	-	100	0.027	0.027	0.027
37.000	-	-	100	0.079	0.079	0.079
37.001	-	-	100	0.079	0.079	0.079
37.002	-	-	100	0.066	0.066	0.066
37.003	-	-	100	0.068	0.068	0.068
37.004	-	-	100	0.049	0.049	0.049
37.005	-	-	100	0.046	0.046	0.046
32.008	-	-	100	0.077	0.077	0.077
38.000	-	-	100	0.102	0.102	0.102
32.009	-	-	100	0.045	0.045	0.045
32.010	-	-	100	0.058	0.058	0.058
32.011	-	-	100	0.073	0.073	0.073
26.011	-	-	100	0.000	0.000	0.000
26.012	-	-	100	0.000	0.000	0.000
26.013	-	-	100	0.000	0.000	0.000
1.024	-	-	100	0.000	0.000	0.000
1.025	-	-	100	0.000	0.000	0.000
1.026	-	-	100	0.000	0.000	0.000
39.000	-	-	100	0.044	0.044	0.044
39.001	-	-	100	0.078	0.078	0.078
39.002	-	-	100	0.029	0.029	0.029
40.000	-	-	100	0.051	0.051	0.051
41.000	-	-	100	0.070	0.070	0.070
41.001	-	-	100	0.055	0.055	0.055
39.003	-	-	100	0.023	0.023	0.023
42.000	-	-	100	0.028	0.028	0.028
39.004	-	-	100	0.065	0.065	0.065
39.005	-	-	100	0.000	0.000	0.000
43.000	-	-	100	0.091	0.091	0.091
43.001	-	-	100	0.056	0.056	0.056
39.006	-	-	100	0.044	0.044	0.044
44.000	-	-	100	0.095	0.095	0.095
44.001	-	-	100	0.025	0.025	0.025
44.002	-	-	100	0.085	0.085	0.085
44.003	-	-	100	0.000	0.000	0.000
45.000	-	-	100	0.055	0.055	0.055
45.001	-	-	100	0.045	0.045	0.045
45.002	-	-	100	0.050	0.050	0.050
44.004	-	-	100	0.109	0.109	0.109
44.005	-	-	100	0.023	0.023	0.023
44.006	-	-	100	0.082	0.082	0.082
44.007	-	-	100	0.000	0.000	0.000
39.007	-	-	100	0.113	0.113	0.113
46.000	-	-	100	0.128	0.128	0.128
46.001	-	-	100	0.053	0.053	0.053
47.000	-	-	100	0.052	0.052	0.052
47.001	-	-	100	0.066	0.066	0.066
47.002	-	-	100	0.047	0.047	0.047
46.002	-	-	100	0.038	0.038	0.038
46.003	-	-	100	0.101	0.101	0.101

M-EC		Page 51
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Area Summary for STORM.SWS

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
46.004	-	-	100	0.000	0.000	0.000
39.008	-	-	100	0.000	0.000	0.000
39.009	-	-	100	0.075	0.075	0.075
48.000	-	-	100	0.061	0.061	0.061
48.001	-	-	100	0.067	0.067	0.067
49.000	-	-	100	0.191	0.191	0.191
49.001	-	-	100	0.012	0.012	0.012
39.010	-	-	100	0.000	0.000	0.000
39.011	-	-	100	0.375	0.375	0.375
39.012	-	-	100	0.214	0.214	0.214
50.000	-	-	100	0.063	0.063	0.063
50.001	-	-	100	0.089	0.089	0.089
51.000	-	-	100	0.025	0.025	0.025
50.002	-	-	100	0.035	0.035	0.035
52.000	-	-	100	0.059	0.059	0.059
52.001	-	-	100	0.047	0.047	0.047
50.003	-	-	100	0.024	0.024	0.024
50.004	-	-	100	0.038	0.038	0.038
50.005	-	-	100	0.048	0.048	0.048
50.006	-	-	100	0.000	0.000	0.000
53.000	-	-	100	0.043	0.043	0.043
54.000	-	-	100	0.027	0.027	0.027
53.001	-	-	100	0.064	0.064	0.064
39.013	-	-	100	0.000	0.000	0.000
39.014	-	-	100	0.020	0.020	0.020
55.000	-	-	100	0.081	0.081	0.081
55.001	-	-	100	0.070	0.070	0.070
56.000	-	-	100	0.131	0.131	0.131
56.001	-	-	100	0.038	0.038	0.038
55.002	-	-	100	0.012	0.012	0.012
55.003	-	-	100	0.060	0.060	0.060
55.004	-	-	100	0.076	0.076	0.076
39.015	-	-	100	0.000	0.000	0.000
39.016	-	-	100	0.000	0.000	0.000
39.017	-	-	100	0.000	0.000	0.000
1.027	-	-	100	0.000	0.000	0.000
1.028	-	-	100	0.000	0.000	0.000
1.029	-	-	100	0.000	0.000	0.000
1.030	-	-	100	0.000	0.000	0.000
1.031	-	-	100	0.000	0.000	0.000
1.032	-	-	100	0.000	0.000	0.000
1.033	-	-	100	0.000	0.000	0.000
1.034	-	-	100	0.000	0.000	0.000
57.000	-	-	100	5.000	5.000	5.000
57.001	-	-	100	0.000	0.000	0.000
57.002	-	-	100	0.000	0.000	0.000
1.035	-	-	100	0.000	0.000	0.000
1.036	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				21.296	21.296	21.296

M-EC		Page 52
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Free Flowing Outfall Details for STORM.SWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
------------------------	-----------------	-----------------	-----------------	------------------------	-------------	-----------


1.036	35	89.607	86.240	0.000	0	0
-------	----	--------	--------	-------	---	---

Simulation Criteria for STORM.SWS

Volumetric Runoff Coeff	0.840	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m <sup>3</sup> /ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	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	4
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.700	Storm Duration (mins)	15
Ratio R	0.409		


M-EC		Page 53
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Online Controls for STORM.SWS

Hydro-Brake® Manhole: 34, DS/PN: 1.036, Volume (m³): 4.8

Design Head (m) 5.536 Hydro-Brake® Type Md6 SW Only Invert Level (m) 86.350  
Design Flow (l/s) 69.5 Diameter (mm) 227

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	7.5	1.200	34.6	3.000	50.9	7.000	77.8
0.200	20.3	1.400	36.0	3.500	55.0	7.500	80.5
0.300	31.2	1.600	37.8	4.000	58.8	8.000	83.2
0.400	36.2	1.800	39.8	4.500	62.4	8.500	85.7
0.500	37.0	2.000	41.7	5.000	65.7	9.000	88.2
0.600	36.6	2.200	43.7	5.500	68.9	9.500	90.6
0.800	34.8	2.400	45.6	6.000	72.0		
1.000	34.0	2.600	47.4	6.500	75.0		

M-EC		Page 54
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Storage Structures for STORM.SWS

Tank or Pond Manhole: 20, DS/PN: 1.020

Invert Level (m) 116.000

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	534.1	2.000	1138.7

Tank or Pond Manhole: 23, DS/PN: 1.024

Invert Level (m) 115.000

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	813.6	2.000	1533.4

Tank or Pond Manhole: 33, DS/PN: 1.034


Invert Level (m) 89.823

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	2468.8	2.300	3833.7

Tank or Pond Manhole: 109, DS/PN: 1.035

Invert Level (m) 89.566

Depth (m)	Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )
0.000	1949.5	2.300	3179.1

M-EC		Page 55
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	24	116.637	-0.218	0.000	0.16	13.0	OK
1.001	2	26	116.497	-0.212	0.000	0.19	16.4	OK
1.002	3	26	116.203	-0.285	0.000	0.13	16.2	OK
1.003	4	26	116.097	-0.250	0.000	0.24	42.3	OK
2.000	5	18	118.452	-0.223	0.000	0.15	17.1	OK
2.001	6	19	118.279	-0.182	0.000	0.32	33.2	OK
2.002	6	19	118.021	-0.192	0.000	0.28	37.6	OK
2.003	8	24	117.138	-0.210	0.000	0.19	46.2	OK
3.000	9.1	19	118.307	-0.118	0.000	0.44	23.0	OK
3.001	9	26	116.954	-0.191	0.000	0.28	22.8	OK
3.002	10	26	116.741	-0.242	0.000	0.27	28.6	OK
3.003	11	27	116.597	-0.285	0.000	0.28	49.4	OK
4.000	12	24	117.128	-0.158	0.000	0.19	19.7	OK
3.004	13	28	116.399	-0.361	0.000	0.21	66.5	OK
3.005	14	28	116.244	-0.309	0.000	0.35	86.7	OK
3.006	15	29	116.127	-0.338	0.000	0.39	88.1	OK
2.004	16	29	116.097	-0.346	0.000	0.38	130.5	OK
2.005	17	29	115.998	-0.355	0.000	0.35	144.7	OK
5.000	18	26	116.708	-0.179	0.000	0.09	11.1	OK
2.006	19	29	115.836	-0.343	0.000	0.38	158.5	OK
2.007	20	29	115.676	-0.331	0.000	0.41	165.7	OK
1.004	21	29	115.578	-0.270	0.000	0.59	203.4	OK

M-EC		Page 56
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	30	115.349	-0.438	0.000	0.36		223.3	OK
6.000	23	24	116.798	-0.132	0.000	0.35		15.7	OK
6.001	24	24	116.572	-0.121	0.000	0.43		15.8	OK
6.002	25	26	116.442	-0.183	0.000	0.31		22.9	OK
6.003	26	26	116.164	-0.151	0.000	0.49		30.0	OK
6.004	27	27	116.031	-0.225	0.000	0.32		40.4	OK
6.005	28	29	115.713	-0.270	0.000	0.17		40.4	OK
1.006	29	34	115.179	-0.451	0.000	0.33		278.8	OK
7.000	30	18	118.115	-0.145	0.000	0.27		10.4	OK
7.001	31	18	117.935	-0.160	0.000	0.18		21.3	OK
1.007	8	35	114.931	-0.410	0.000	0.39		288.7	OK
8.000	60	22	116.696	-0.160	0.000	0.18		7.0	OK
8.001	61	24	116.439	-0.245	0.000	0.08		8.0	OK
8.002	35	24	116.169	-0.259	0.000	0.04		11.0	OK
1.008	10	36	114.810	-0.269	0.000	0.87		289.8	OK
9.000	62	18	119.115	-0.185	0.000	0.31		25.4	OK
10.000	40	18	118.987	0.019	0.000	1.22		75.0	SURCHARGED
9.001	63	18	118.823	-0.156	0.000	0.62		104.7	OK
9.002	64	18	118.279	-0.239	0.000	0.28		127.4	OK
9.003	148	34	115.047	-0.219	0.000	0.51		131.3	OK
1.009	11	37	114.783	-0.277	0.000	0.52		380.2	OK
1.010	12	37	114.740	-0.236	0.000	1.02		380.0	OK
1.011	13	37	114.708	-0.246	0.000	0.87		379.9	OK
1.012	14	39	114.515	-0.406	0.000	0.40		377.0	OK
1.013	15	39	114.504	-0.366	0.000	0.82		376.4	OK
1.014	16	39	114.499	-0.348	0.000	0.41		373.3	OK
11.000	TWC16	18	117.705	-0.136	0.000	0.32		31.6	OK
11.001	TWC17	28	115.512	-0.148	0.000	0.25		31.8	OK
1.015	17	39	114.480	-0.390	0.000	0.25		361.3	OK
1.016	18	39	114.442	-0.325	0.000	0.23		302.2	OK
12.000	TWC1	19	117.658	-0.143	0.000	0.28		10.5	OK
12.001	TWC2	19	117.507	-0.129	0.000	0.37		14.0	OK
12.002	TWC3	19	117.293	-0.077	0.000	0.75		26.0	OK
12.003	TWC4	19	117.224	-0.073	0.000	0.79		26.0	OK
13.000	TWC5	18	118.176	-0.114	0.000	0.48		18.1	OK
13.001	TWC6	18	117.996	-0.072	0.000	0.79		29.4	OK
13.002	TWC7	18	117.788	-0.110	0.000	0.50		36.0	OK
12.004	TWC8	19	117.114	-0.128	0.000	0.70		67.5	OK
12.005	TWC9	19	117.053	-0.115	0.000	0.81		71.8	OK
12.006	TWC10	21	116.923	-0.197	0.000	0.46		74.0	OK
1.017	TWC11	39	114.398	-0.269	0.000	0.18		261.9	OK
1.018	19	39	114.352	-0.241	0.000	0.12		248.1	OK
14.000	TWC12	19	117.247	-0.162	0.000	0.17		6.4	OK
14.001	TWC13	19	117.072	-0.180	0.000	0.09		11.0	OK
14.002	TWC14	24	116.134	-0.145	0.000	0.27		21.0	OK
1.019	TWC15	38	114.304	-0.024	0.000	0.18		229.8	OK
15.000	65	19	117.197	-0.172	0.000	0.37		25.5	OK
16.000	136	18	118.045	-0.169	0.000	0.14		8.3	OK
16.001	137	18	117.741	-0.166	0.000	0.15		8.6	OK



M-EC		Page 57
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 15 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	19	117.487	-0.232	0.000	0.11		14.7	OK
15.001	66	23	116.984	-0.202	0.000	0.43		50.9	OK
15.002	67	24	116.857	-0.187	0.000	0.49		56.1	OK
17.000	9	19	117.317	-0.267	0.000	0.03		2.2	OK
17.001	75	19	117.179	-0.218	0.000	0.17		12.8	OK
17.002	76	24	116.779	-0.441	0.000	0.06		23.9	OK
15.003	68	24	116.638	-0.307	0.000	0.36		86.1	OK
15.004	69	24	116.461	-0.356	0.000	0.31		97.8	OK
15.005	70	25	116.398	-0.330	0.000	0.34		95.2	OK
15.006	71	26	116.366	-0.308	0.000	0.34		104.4	OK
18.000	147	21	116.801	-0.170	0.000	0.13		5.2	OK
18.001	112	24	116.640	-0.207	0.000	0.21		10.9	OK
18.002	113	24	116.476	-0.327	0.000	0.11		13.7	OK
19.000	115	19	117.308	-0.186	0.000	0.07		3.4	OK
19.001	116	19	117.055	-0.175	0.000	0.11		8.7	OK
18.003	77	24	116.440	-0.310	0.000	0.19		23.7	OK
20.000	134	19	117.262	-0.170	0.000	0.13		11.3	OK
18.004	135	26	116.382	-0.318	0.000	0.23		39.6	OK
18.005	78	27	116.352	-0.293	0.000	0.23		39.9	OK
15.007	72	28	116.335	-0.263	0.000	0.48		137.5	OK
15.008	73	27	116.262	-0.192	0.000	0.61		130.2	OK
15.009	74	28	116.218	-0.193	0.000	0.80		129.4	OK
15.010	98	28	116.083	-0.302	0.000	0.47		127.0	OK
15.011	99	28	115.963	-0.320	0.000	0.43		120.9	OK
15.012	101	28	115.773	-0.326	0.000	0.43		118.3	OK
21.000	142	19	117.146	-0.143	0.000	0.28		12.9	OK
21.001	143	22	116.728	-0.139	0.000	0.31		18.2	OK
22.000	118	21	117.106	-0.200	0.000	0.03		0.9	OK
22.001	119	21	117.056	-0.164	0.000	0.16		5.2	OK
22.002	120	21	117.012	-0.149	0.000	0.25		15.3	OK
23.000	129	24	116.648	-0.229	0.000	0.13		10.4	OK
23.001	130	24	116.511	-0.231	0.000	0.12		12.2	OK
22.003	121	26	116.353	-0.141	0.000	0.55		35.6	OK
24.000	131	21	116.956	-0.122	0.000	0.42		17.5	OK
24.001	132	23	116.713	-0.070	0.000	0.81		22.1	OK
24.002	133	24	116.531	-0.209	0.000	0.20		25.4	OK
22.004	122	26	116.176	-0.248	0.000	0.35		64.0	OK
22.005	123	26	116.124	-0.204	0.000	0.47		70.8	OK
25.000	139	22	116.768	-0.118	0.000	0.45		12.2	OK
25.001	140	24	116.649	-0.125	0.000	0.40		24.8	OK
22.006	124	26	116.076	-0.186	0.000	0.65		97.0	OK
22.007	125	26	115.854	-0.352	0.000	0.35		96.7	OK
22.008	126	26	115.682	-0.477	0.000	0.18		100.8	OK
22.009	127	27	115.643	-0.420	0.000	0.40		98.0	OK
21.002	149	28	115.450	-0.565	0.000	0.14		110.1	OK
1.020	20	37	114.192	0.638	0.000	3.98		263.7	SURCHARGED
1.021	108	39	113.791	0.246	0.000	1.01		253.5	SURCHARGED
1.022	21	39	113.663	0.254	0.000	0.99		253.4	SURCHARGED
1.023	22	39	113.486	0.265	0.000	1.09		265.5	SURCHARGED

M-EC		Page 58
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 15 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	18	119.343	-0.595	0.000	0.03		24.0	OK
26.001	90	18	119.016	-0.591	0.000	0.04		27.7	OK
27.000	200	18	119.576	-0.240	0.000	0.09		13.8	OK
27.001	109	18	118.868	-0.411	0.000	0.11		15.1	OK
26.002	91	18	118.637	-0.611	0.000	0.08		43.2	OK
28.000	TWD27	18	119.412	-0.205	0.000	0.22		28.1	OK
26.003	91A	18	118.511	-0.651	0.000	0.10		75.6	OK
26.004	92	18	118.436	-0.628	0.000	0.13		84.5	OK
26.005	93	18	118.359	-0.644	0.000	0.11		83.2	OK
29.000	TWD29	18	119.433	-0.132	0.000	0.35		12.7	OK
29.001	TWD30	18	119.273	-0.185	0.000	0.31		19.7	OK
29.002	TWD31	18	119.125	-0.223	0.000	0.15		25.6	OK
26.006	94	18	118.248	-0.618	0.000	0.14		109.5	OK
26.007	95	18	118.138	-0.617	0.000	0.14		111.2	OK
30.000	201	18	119.237	-0.204	0.000	0.22		18.5	OK
30.001	202	18	119.008	-0.182	0.000	0.32		24.2	OK
30.002	203	18	118.956	-0.145	0.000	0.52		39.3	OK
30.003	204	18	118.726	-0.257	0.000	0.22		45.5	OK
30.004	117	18	118.475	-0.196	0.000	0.46		47.8	OK
26.008	95A	18	118.039	-0.572	0.000	0.20		163.1	OK
26.009	96	18	117.836	-0.597	0.000	0.17		158.4	OK
26.010	97	18	117.419	-0.619	0.000	0.14		157.5	OK
31.000	121	18	117.123	-0.497	0.000	0.33		118.9	OK
32.000	TWD4	18	120.095	-0.166	0.000	0.15		7.5	OK
32.001	TWD5	18	119.901	-0.148	0.000	0.25		14.9	OK
33.000	TWD16	18	119.547	-0.164	0.000	0.41		27.0	OK
32.002	TWD6	18	119.382	-0.206	0.000	0.41		43.4	OK
34.000	TWD17	18	119.550	-0.157	0.000	0.20		10.2	OK
35.000	TWD18	18	119.476	-0.162	0.000	0.17		7.2	OK
32.003	TWD7	18	119.227	-0.213	0.000	0.38		62.7	OK
32.004	TWD8	18	118.720	-0.263	0.000	0.36		73.8	OK
32.005	TWD9	18	118.615	-0.236	0.000	0.46		77.0	OK
32.006	TWD10	18	118.567	-0.234	0.000	0.46		78.2	OK
36.000	TWD19	18	119.595	-0.126	0.000	0.39		27.1	OK
32.007	TWD11	18	117.484	-0.237	0.000	0.68		103.3	OK
37.000	TWD20	18	119.341	-0.145	0.000	0.27		10.2	OK
37.001	TWD21	18	119.079	-0.192	0.000	0.27		18.3	OK
37.002	TWD22	18	118.892	-0.174	0.000	0.36		24.1	OK
37.003	TWD23	21	118.621	-0.239	0.000	0.28		30.1	OK
37.004	TWD24	21	118.512	-0.274	0.000	0.16		34.3	OK
37.005	TWD25	21	118.026	-0.272	0.000	0.17		38.3	OK
32.008	TWD12	21	117.336	-0.364	0.000	0.41		145.4	OK
38.000	TWD26	18	119.280	-0.170	0.000	0.13		13.4	OK
32.009	TWD13	21	117.218	-0.397	0.000	0.34		148.5	OK
32.010	TWD14	22	117.159	-0.388	0.000	0.36		147.3	OK
32.011	TWD15	22	117.111	-0.384	0.000	0.48		149.6	OK
26.011	98	23	116.814	-0.774	0.000	0.16		343.3	OK
26.012	99	23	116.293	-0.727	0.000	0.21		344.1	OK
26.013	100	22	116.165	-0.564	0.000	0.44		342.7	OK

M-EC		Page 59
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 15 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	39	113.415	0.283	0.000	1.40	362.1	SURCHARGED
1.025	24	39	113.032	0.106	0.000	1.35	344.5	SURCHARGED
1.026	25	39	112.611	-0.178	0.000	0.54	343.7	OK
39.000	79	18	121.680	-0.493	0.000	0.01	5.7	OK
39.001	80	18	121.294	-0.465	0.000	0.03	14.4	OK
39.002	81	18	120.731	-0.596	0.000	0.03	17.5	OK
40.000	130	23	121.029	-0.172	0.000	0.13	4.3	OK
41.000	BAR1	18	121.713	-0.092	0.000	0.32	9.2	OK
41.001	131	18	120.900	-0.274	0.000	0.16	15.2	OK
39.003	81A	18	120.571	-0.563	0.000	0.07	39.6	OK
42.000	133	23	120.685	-0.261	0.000	0.04	2.4	OK
39.004	82	18	120.308	-0.597	0.000	0.09	49.0	OK
39.005	83	18	120.222	-0.613	0.000	0.08	48.3	OK
43.000	BAR2	18	121.544	-0.085	0.000	0.38	12.0	OK
43.001	136	18	120.444	-0.248	0.000	0.24	18.1	OK
39.006	83A	18	120.089	-0.581	0.000	0.11	69.5	OK
44.000	206	20	120.529	-0.328	0.000	0.11	12.0	OK
44.001	207	21	120.506	-0.314	0.000	0.12	13.7	OK
44.002	208	21	120.488	-0.289	0.000	0.15	21.0	OK
44.003	209	21	120.460	-0.244	0.000	0.22	20.5	OK
45.000	210	18	120.920	-0.165	0.000	0.16	7.2	OK
45.001	211	18	120.729	-0.213	0.000	0.19	12.3	OK
45.002	212	21	120.482	-0.274	0.000	0.16	17.6	OK
44.004	213	21	120.452	-0.230	0.000	0.43	44.6	OK
44.005	214	21	120.414	-0.232	0.000	0.34	45.7	OK
44.006	215	21	120.369	-0.212	0.000	0.55	51.8	OK
44.007	138	21	120.306	-0.251	0.000	0.41	51.8	OK
39.007	84	21	119.963	-0.562	0.000	0.21	126.1	OK
46.000	BAR4	18	121.590	-0.119	0.000	0.44	16.5	OK
46.001	BAR5	18	121.391	-0.097	0.000	0.61	21.9	OK
47.000	BAR6	18	122.067	-0.084	0.000	0.40	6.8	OK
47.001	BAR7	18	121.743	-0.128	0.000	0.38	13.9	OK
47.002	BAR8	18	121.590	-0.137	0.000	0.32	19.0	OK
46.002	BAR9	18	121.270	-0.109	0.000	0.72	44.3	OK
46.003	BAR10	18	121.121	-0.180	0.000	0.33	54.1	OK
46.004	140	18	120.258	-0.237	0.000	0.45	54.4	OK
39.008	85	21	119.911	-0.557	0.000	0.23	178.6	OK
39.009	86	21	119.775	-0.559	0.000	0.23	182.0	OK
48.000	BAR3	18	120.848	-0.100	0.000	0.24	8.0	OK
48.001	143	18	119.835	-0.339	0.000	0.14	15.4	OK
49.000	216	18	120.446	-0.224	0.000	0.15	25.1	OK
49.001	144	18	119.881	-0.314	0.000	0.20	26.2	OK
39.010	87	21	119.534	-0.618	0.000	0.21	205.2	OK
39.011	88	21	119.410	-0.597	0.000	0.25	234.4	OK
39.012	103	22	119.261	-0.590	0.000	0.26	246.3	OK
50.000	BAR11	18	121.369	-0.076	0.000	0.47	8.2	OK
50.001	BAR12	18	121.006	-0.132	0.000	0.35	17.9	OK
51.000	BAR13	18	120.810	-0.158	0.000	0.10	3.2	OK
50.002	BAR14	18	120.803	-0.116	0.000	0.47	25.0	OK

M-EC		Page 60
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		

Summary Wizard of 15 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	18	120.873	-0.078	0.000	0.46		7.7	OK
52.001	BAR16	18	120.585	-0.141	0.000	0.29		12.8	OK
50.003	BAR17	18	120.496	-0.122	0.000	0.66		40.3	OK
50.004	BAR18	18	120.427	-0.114	0.000	0.69		43.7	OK
50.005	BAR19	18	120.256	-0.193	0.000	0.28		48.3	OK
50.006	149	18	119.438	-0.287	0.000	0.29		48.2	OK
53.000	TWD1	18	120.446	-0.168	0.000	0.14		5.4	OK
54.000	TWD3	18	120.686	-0.196	0.000	0.04		3.6	OK
53.001	TWD2	18	120.085	-0.161	0.000	0.18		15.8	OK
39.013	104	22	119.108	-0.562	0.000	0.44		294.7	OK
39.014	104A	22	118.954	-0.681	0.000	0.25		288.1	OK
55.000	BAR20	18	121.428	-0.065	0.000	0.61		10.7	OK
55.001	BAR21	18	120.918	-0.135	0.000	0.33		17.8	OK
56.000	BAR22	18	120.489	-0.116	0.000	0.47		17.0	OK
56.001	BAR23	18	120.376	-0.093	0.000	0.65		21.2	OK
55.002	BAR24	18	120.263	-0.151	0.000	0.49		39.8	OK
55.003	BAR25	18	119.991	-0.203	0.000	0.43		45.5	OK
55.004	BAR26	18	119.844	-0.272	0.000	0.17		52.5	OK
39.015	105	25	118.775	-0.699	0.000	0.22		305.8	OK
39.016	106	25	118.609	-1.538	0.000	0.04		281.4	OK
39.017	107	26	115.928	-0.619	0.000	0.15		280.9	OK
1.027	26	34	112.187	-0.721	0.000	0.15		577.5	OK
1.028	27	35	109.365	-0.382	0.000	0.28		573.6	OK
1.029	28	34	106.421	-0.770	0.000	0.12		553.1	OK
1.030	29	36	97.461	-1.016	0.000	0.09		544.6	OK
1.031	30	36	92.896	-0.486	0.000	0.25		526.7	OK
1.032	31	40	91.728	-0.522	0.000	0.31		486.6	OK
1.033	32	40	91.234	-0.889	0.000	0.15		462.6	OK
1.034	33	54	90.053	-0.220	0.000	0.51		124.1	OK*
57.000	108	31	91.154	-0.732	0.000	0.25		401.8	OK
57.001	109	39	90.876	-1.010	0.000	0.13		255.1	OK
57.002	110	44	90.514	-1.372	0.000	0.07		161.3	OK
1.035	109	54	89.701	-0.165	0.000	0.26		63.3	OK*
1.036	34	37	86.650	0.000	0.000	0.63		52.6	SURCHARGED*

M-EC		Page 61
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	25	116.632	-0.223	0.000	0.15	11.8	OK
1.001	2	27	116.492	-0.217	0.000	0.17	14.8	OK
1.002	3	27	116.199	-0.289	0.000	0.12	14.9	OK
1.003	4	27	116.093	-0.254	0.000	0.22	39.6	OK
2.000	5	19	118.448	-0.227	0.000	0.13	15.4	OK
2.001	6	20	118.272	-0.189	0.000	0.30	30.6	OK
2.002	6	20	118.016	-0.197	0.000	0.25	34.3	OK
2.003	8	25	117.134	-0.214	0.000	0.18	42.5	OK
3.000	9.1	20	118.300	-0.125	0.000	0.40	20.7	OK
3.001	9	27	116.948	-0.197	0.000	0.26	20.8	OK
3.002	10	27	116.735	-0.248	0.000	0.25	26.2	OK
3.003	11	28	116.591	-0.291	0.000	0.27	47.0	OK
4.000	12	25	117.124	-0.162	0.000	0.17	17.8	OK
3.004	13	29	116.394	-0.366	0.000	0.20	62.3	OK
3.005	14	29	116.239	-0.314	0.000	0.34	83.2	OK
3.006	15	30	116.120	-0.345	0.000	0.38	84.7	OK
2.004	16	30	116.092	-0.351	0.000	0.36	124.7	OK
2.005	17	30	115.992	-0.361	0.000	0.33	139.8	OK
5.000	18	27	116.705	-0.182	0.000	0.08	10.0	OK
2.006	19	30	115.830	-0.349	0.000	0.36	151.5	OK
2.007	20	30	115.670	-0.337	0.000	0.40	159.3	OK
1.004	21	30	115.571	-0.277	0.000	0.56	195.8	OK

M-EC		Page 62
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 30 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	32	115.345	-0.442	0.000	0.35		217.6	OK
6.000	23	25	116.792	-0.138	0.000	0.32		14.3	OK
6.001	24	25	116.565	-0.128	0.000	0.39		14.2	OK
6.002	25	27	116.436	-0.189	0.000	0.29		21.3	OK
6.003	26	27	116.158	-0.157	0.000	0.46		28.0	OK
6.004	27	28	116.026	-0.230	0.000	0.31		38.9	OK
6.005	28	30	115.710	-0.273	0.000	0.17		38.7	OK
1.006	29	35	115.173	-0.457	0.000	0.32		269.7	OK
7.000	30	19	118.110	-0.150	0.000	0.24		9.4	OK
7.001	31	19	117.932	-0.163	0.000	0.17		19.7	OK
1.007	8	36	114.925	-0.416	0.000	0.38		283.4	OK
8.000	60	23	116.692	-0.164	0.000	0.17		6.4	OK
8.001	61	25	116.435	-0.249	0.000	0.07		7.2	OK
8.002	35	25	116.167	-0.261	0.000	0.04		10.1	OK
1.008	10	34	114.901	-0.178	0.000	0.86		284.6	OK
9.000	62	19	119.108	-0.192	0.000	0.28		22.9	OK
10.000	40	20	118.973	0.005	0.000	1.04		63.7	SURCHARGED
9.001	63	19	118.806	-0.173	0.000	0.56		93.8	OK
9.002	64	19	118.270	-0.248	0.000	0.25		116.0	OK
9.003	148	35	115.032	-0.234	0.000	0.46		118.5	OK
1.009	11	34	114.896	-0.164	0.000	0.51		372.8	OK
1.010	12	34	114.840	-0.136	0.000	1.00		372.8	OK
1.011	13	34	114.831	-0.123	0.000	0.86		372.8	OK
1.012	14	34	114.806	-0.115	0.000	0.39		373.2	OK
1.013	15	34	114.764	-0.106	0.000	0.81		371.9	OK
1.014	16	34	114.754	-0.093	0.000	0.40		363.9	OK
11.000	TWC16	19	117.699	-0.142	0.000	0.30		28.9	OK
11.001	TWC17	29	115.508	-0.152	0.000	0.23		28.8	OK
1.015	17	34	114.701	-0.169	0.000	0.24		347.4	OK
1.016	18	33	114.654	-0.113	0.000	0.28		370.0	OK
12.000	TWC1	20	117.653	-0.148	0.000	0.26		9.5	OK
12.001	TWC2	20	117.502	-0.134	0.000	0.34		13.0	OK
12.002	TWC3	21	117.286	-0.084	0.000	0.71		24.5	OK
12.003	TWC4	21	117.217	-0.080	0.000	0.74		24.3	OK
13.000	TWC5	19	118.169	-0.121	0.000	0.43		16.3	OK
13.001	TWC6	19	117.988	-0.080	0.000	0.73		27.4	OK
13.002	TWC7	21	117.782	-0.116	0.000	0.48		33.9	OK
12.004	TWC8	22	117.105	-0.137	0.000	0.66		63.5	OK
12.005	TWC9	22	117.042	-0.126	0.000	0.77		68.2	OK
12.006	TWC10	23	116.918	-0.202	0.000	0.43		70.1	OK
1.017	TWC11	33	114.583	-0.084	0.000	0.21		312.4	OK
1.018	19	33	114.505	-0.088	0.000	0.14		288.5	OK
14.000	TWC12	20	117.243	-0.166	0.000	0.16		5.8	OK
14.001	TWC13	20	117.070	-0.182	0.000	0.08		10.2	OK
14.002	TWC14	25	116.130	-0.149	0.000	0.25		19.7	OK
1.019	TWC15	32	114.429	0.101	0.000	0.21		263.7	SURCHARGED
15.000	65	20	117.190	-0.179	0.000	0.33		22.9	OK
16.000	136	19	118.042	-0.172	0.000	0.13		7.5	OK
16.001	137	19	117.738	-0.169	0.000	0.14		7.9	OK

M-EC		Page 63
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	20	117.484	-0.235	0.000	0.10		13.5	OK
15.001	66	24	116.976	-0.210	0.000	0.40		47.0	OK
15.002	67	25	116.848	-0.196	0.000	0.46		51.6	OK
17.000	9	20	117.316	-0.268	0.000	0.02		2.0	OK
17.001	75	21	117.176	-0.221	0.000	0.15		11.8	OK
17.002	76	25	116.775	-0.445	0.000	0.06		22.3	OK
15.003	68	25	116.631	-0.314	0.000	0.34		81.3	OK
15.004	69	26	116.459	-0.358	0.000	0.30		93.4	OK
15.005	70	26	116.396	-0.332	0.000	0.32		91.4	OK
15.006	71	27	116.365	-0.309	0.000	0.33		101.5	OK
18.000	147	22	116.798	-0.173	0.000	0.12		4.7	OK
18.001	112	25	116.636	-0.211	0.000	0.19		10.1	OK
18.002	113	25	116.471	-0.332	0.000	0.10		12.7	OK
19.000	115	20	117.306	-0.188	0.000	0.06		3.1	OK
19.001	116	20	117.053	-0.177	0.000	0.10		8.0	OK
18.003	77	26	116.436	-0.314	0.000	0.18		22.0	OK
20.000	134	20	117.259	-0.173	0.000	0.12		10.2	OK
18.004	135	27	116.381	-0.319	0.000	0.22		36.8	OK
18.005	78	26	116.352	-0.293	0.000	0.22		38.0	OK
15.007	72	27	116.335	-0.263	0.000	0.47		135.1	OK
15.008	73	28	116.262	-0.192	0.000	0.61		130.3	OK
15.009	74	27	116.219	-0.192	0.000	0.80		129.4	OK
15.010	98	27	116.084	-0.301	0.000	0.47		127.7	OK
15.011	99	27	115.964	-0.319	0.000	0.43		123.2	OK
15.012	101	27	115.776	-0.323	0.000	0.44		121.4	OK
21.000	142	20	117.141	-0.148	0.000	0.25		11.6	OK
21.001	143	23	116.724	-0.143	0.000	0.28		16.8	OK
22.000	118	22	117.105	-0.201	0.000	0.03		0.8	OK
22.001	119	23	117.054	-0.166	0.000	0.15		4.8	OK
22.002	120	23	117.009	-0.152	0.000	0.23		14.2	OK
23.000	129	25	116.644	-0.233	0.000	0.11		9.4	OK
23.001	130	25	116.508	-0.234	0.000	0.11		11.1	OK
22.003	121	27	116.346	-0.148	0.000	0.50		32.8	OK
24.000	131	22	116.950	-0.129	0.000	0.38		15.8	OK
24.001	132	25	116.703	-0.079	0.000	0.74		20.1	OK
24.002	133	25	116.527	-0.213	0.000	0.18		23.3	OK
22.004	122	27	116.166	-0.258	0.000	0.33		59.6	OK
22.005	123	27	116.114	-0.214	0.000	0.44		66.0	OK
25.000	139	23	116.761	-0.125	0.000	0.40		11.0	OK
25.001	140	25	116.644	-0.130	0.000	0.37		22.7	OK
22.006	124	27	116.067	-0.195	0.000	0.61		91.5	OK
22.007	125	27	115.845	-0.361	0.000	0.33		91.1	OK
22.008	126	27	115.673	-0.487	0.000	0.17		95.3	OK
22.009	127	28	115.634	-0.429	0.000	0.38		93.7	OK
21.002	149	29	115.446	-0.569	0.000	0.13		106.0	OK
1.020	20	32	114.424	0.870	0.000	4.10		272.0	SURCHARGED
1.021	108	33	114.022	0.477	0.000	1.06		266.2	SURCHARGED
1.022	21	33	113.912	0.503	0.000	1.03		263.7	SURCHARGED
1.023	22	33	113.777	0.556	0.000	1.09		265.8	SURCHARGED

M-EC		Page 64
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 30 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	19	119.340	-0.598	0.000	0.03		21.8	OK
26.001	90	19	119.012	-0.595	0.000	0.03		25.3	OK
27.000	200	19	119.572	-0.244	0.000	0.08		12.4	OK
27.001	109	19	118.863	-0.416	0.000	0.10		13.8	OK
26.002	91	19	118.627	-0.621	0.000	0.07		38.9	OK
28.000	TWD27	19	119.407	-0.210	0.000	0.20		25.4	OK
26.003	91A	19	118.503	-0.659	0.000	0.09		68.1	OK
26.004	92	19	118.428	-0.636	0.000	0.12		76.6	OK
26.005	93	19	118.352	-0.651	0.000	0.10		76.6	OK
29.000	TWD29	19	119.428	-0.137	0.000	0.32		11.6	OK
29.001	TWD30	19	119.267	-0.191	0.000	0.28		17.9	OK
29.002	TWD31	19	119.122	-0.226	0.000	0.14		23.5	OK
26.006	94	19	118.239	-0.627	0.000	0.13		99.5	OK
26.007	95	19	118.130	-0.625	0.000	0.13		102.8	OK
30.000	201	19	119.232	-0.209	0.000	0.20		16.8	OK
30.001	202	19	119.001	-0.189	0.000	0.29		21.8	OK
30.002	203	19	118.949	-0.152	0.000	0.48		36.3	OK
30.003	204	20	118.722	-0.261	0.000	0.20		42.3	OK
30.004	117	21	118.468	-0.203	0.000	0.43		44.7	OK
26.008	95A	20	118.030	-0.581	0.000	0.19		152.3	OK
26.009	96	20	117.829	-0.604	0.000	0.16		147.7	OK
26.010	97	22	117.412	-0.626	0.000	0.13		147.9	OK
31.000	121	19	117.102	-0.518	0.000	0.30		108.0	OK
32.000	TWD4	19	120.091	-0.170	0.000	0.14		6.8	OK
32.001	TWD5	19	119.897	-0.152	0.000	0.23		13.8	OK
33.000	TWD16	19	119.539	-0.172	0.000	0.37		24.4	OK
32.002	TWD6	19	119.373	-0.215	0.000	0.37		40.1	OK
34.000	TWD17	19	119.546	-0.161	0.000	0.18		9.2	OK
35.000	TWD18	19	119.472	-0.166	0.000	0.16		6.5	OK
32.003	TWD7	19	119.218	-0.222	0.000	0.35		57.4	OK
32.004	TWD8	20	118.714	-0.269	0.000	0.34		68.9	OK
32.005	TWD9	21	118.607	-0.244	0.000	0.43		73.0	OK
32.006	TWD10	21	118.558	-0.243	0.000	0.43		73.4	OK
36.000	TWD19	19	119.589	-0.132	0.000	0.36		24.5	OK
32.007	TWD11	22	117.471	-0.250	0.000	0.64		97.0	OK
37.000	TWD20	19	119.337	-0.149	0.000	0.24		9.3	OK
37.001	TWD21	19	119.074	-0.197	0.000	0.25		17.0	OK
37.002	TWD22	21	118.888	-0.178	0.000	0.34		22.9	OK
37.003	TWD23	22	118.618	-0.242	0.000	0.27		29.0	OK
37.004	TWD24	22	118.510	-0.276	0.000	0.16		33.2	OK
37.005	TWD25	23	118.024	-0.274	0.000	0.16		37.2	OK
32.008	TWD12	23	117.331	-0.369	0.000	0.39		138.0	OK
38.000	TWD26	19	119.277	-0.173	0.000	0.12		12.1	OK
32.009	TWD13	23	117.214	-0.401	0.000	0.33		143.6	OK
32.010	TWD14	23	117.156	-0.391	0.000	0.35		143.9	OK
32.011	TWD15	23	117.108	-0.387	0.000	0.47		147.8	OK
26.011	98	22	116.815	-0.773	0.000	0.16		344.2	OK
26.012	99	22	116.293	-0.727	0.000	0.21		342.9	OK
26.013	100	23	116.165	-0.564	0.000	0.44		343.4	OK



M-EC		Page 65
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 30 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	32	113.714	0.582	0.000	1.64		424.5	SURCHARGED
1.025	24	32	113.148	0.222	0.000	1.60		408.0	SURCHARGED
1.026	25	33	112.634	-0.155	0.000	0.64		406.3	OK
39.000	79	19	121.676	-0.497	0.000	0.01		5.2	OK
39.001	80	19	121.292	-0.467	0.000	0.03		13.3	OK
39.002	81	20	120.728	-0.599	0.000	0.03		16.2	OK
40.000	130	22	121.030	-0.171	0.000	0.13		4.4	OK
41.000	BAR1	19	121.710	-0.095	0.000	0.29		8.3	OK
41.001	131	19	120.894	-0.280	0.000	0.15		14.0	OK
39.003	81A	21	120.566	-0.568	0.000	0.06		36.5	OK
42.000	133	22	120.686	-0.260	0.000	0.04		2.4	OK
39.004	82	22	120.303	-0.602	0.000	0.09		45.6	OK
39.005	83	22	120.216	-0.619	0.000	0.07		45.2	OK
43.000	BAR2	19	121.540	-0.089	0.000	0.35		10.8	OK
43.001	136	19	120.437	-0.255	0.000	0.22		16.6	OK
39.006	83A	22	120.083	-0.587	0.000	0.11		64.7	OK
44.000	206	22	120.523	-0.334	0.000	0.10		11.0	OK
44.001	207	22	120.502	-0.318	0.000	0.11		12.7	OK
44.002	208	23	120.484	-0.293	0.000	0.15		19.9	OK
44.003	209	23	120.457	-0.247	0.000	0.21		19.6	OK
45.000	210	19	120.917	-0.168	0.000	0.14		6.5	OK
45.001	211	19	120.724	-0.218	0.000	0.17		11.2	OK
45.002	212	22	120.480	-0.276	0.000	0.15		16.1	OK
44.004	213	23	120.450	-0.232	0.000	0.42		43.4	OK
44.005	214	23	120.411	-0.234	0.000	0.33		44.7	OK
44.006	215	23	120.366	-0.215	0.000	0.54		50.8	OK
44.007	138	23	120.304	-0.253	0.000	0.40		50.8	OK
39.007	84	22	119.959	-0.566	0.000	0.20		122.0	OK
46.000	BAR4	19	121.583	-0.126	0.000	0.39		14.9	OK
46.001	BAR5	19	121.385	-0.103	0.000	0.56		20.2	OK
47.000	BAR6	19	122.063	-0.088	0.000	0.36		6.1	OK
47.001	BAR7	19	121.738	-0.133	0.000	0.35		12.8	OK
47.002	BAR8	20	121.587	-0.140	0.000	0.30		17.6	OK
46.002	BAR9	20	121.259	-0.120	0.000	0.67		41.2	OK
46.003	BAR10	21	121.116	-0.185	0.000	0.31		50.8	OK
46.004	140	21	120.250	-0.245	0.000	0.42		50.8	OK
39.008	85	22	119.906	-0.562	0.000	0.22		171.3	OK
39.009	86	22	119.771	-0.563	0.000	0.22		176.0	OK
48.000	BAR3	19	120.845	-0.103	0.000	0.22		7.2	OK
48.001	143	19	119.829	-0.345	0.000	0.13		14.2	OK
49.000	216	19	120.442	-0.228	0.000	0.13		22.6	OK
49.001	144	19	119.873	-0.322	0.000	0.18		23.9	OK
39.010	87	23	119.530	-0.622	0.000	0.21		201.6	OK
39.011	88	23	119.406	-0.601	0.000	0.24		229.2	OK
39.012	103	23	119.259	-0.592	0.000	0.25		244.3	OK
50.000	BAR11	19	121.364	-0.081	0.000	0.43		7.5	OK
50.001	BAR12	19	121.001	-0.137	0.000	0.32		16.6	OK
51.000	BAR13	19	120.806	-0.162	0.000	0.09		2.9	OK
50.002	BAR14	19	120.797	-0.122	0.000	0.43		22.9	OK

M-EC		Page 66
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 30 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	19	120.868	-0.083	0.000	0.42		7.0	OK
52.001	BAR16	19	120.580	-0.146	0.000	0.27		11.8	OK
50.003	BAR17	19	120.487	-0.131	0.000	0.61		37.2	OK
50.004	BAR18	20	120.417	-0.124	0.000	0.64		40.3	OK
50.005	BAR19	21	120.253	-0.196	0.000	0.26		44.9	OK
50.006	149	21	119.433	-0.292	0.000	0.27		45.1	OK
53.000	TWD1	19	120.443	-0.171	0.000	0.13		4.9	OK
54.000	TWD3	19	120.685	-0.197	0.000	0.04		3.2	OK
53.001	TWD2	19	120.082	-0.164	0.000	0.16		14.6	OK
39.013	104	23	119.103	-0.567	0.000	0.43		291.1	OK
39.014	104A	24	118.953	-0.682	0.000	0.25		285.3	OK
55.000	BAR20	19	121.422	-0.071	0.000	0.55		9.6	OK
55.001	BAR21	19	120.914	-0.139	0.000	0.30		16.5	OK
56.000	BAR22	19	120.482	-0.123	0.000	0.42		15.4	OK
56.001	BAR23	19	120.369	-0.100	0.000	0.59		19.2	OK
55.002	BAR24	19	120.255	-0.159	0.000	0.45		36.5	OK
55.003	BAR25	19	119.983	-0.211	0.000	0.39		42.1	OK
55.004	BAR26	21	119.840	-0.276	0.000	0.16		49.2	OK
39.015	105	24	118.776	-0.698	0.000	0.23		307.7	OK
39.016	106	24	118.611	-1.536	0.000	0.04		288.5	OK
39.017	107	25	115.933	-0.614	0.000	0.15		286.4	OK
1.027	26	29	112.222	-0.686	0.000	0.18		664.0	OK
1.028	27	31	109.395	-0.352	0.000	0.32		659.3	OK
1.029	28	32	106.453	-0.738	0.000	0.14		634.5	OK
1.030	29	31	97.493	-0.984	0.000	0.10		619.3	OK
1.031	30	31	92.930	-0.452	0.000	0.29		602.1	OK
1.032	31	34	91.778	-0.472	0.000	0.36		559.2	OK
1.033	32	35	91.285	-0.838	0.000	0.17		536.5	OK
1.034	33	53	90.065	-0.208	0.000	0.54		132.7	OK*
57.000	108	30	91.164	-0.722	0.000	0.25		411.1	OK
57.001	109	35	90.912	-0.974	0.000	0.15		284.3	OK
57.002	110	40	90.570	-1.316	0.000	0.08		194.8	OK
1.035	109	53	89.720	-0.146	0.000	0.28		66.7	OK*
1.036	34	36	86.650	0.000	0.000	0.63		52.7	SURCHARGED*

M-EC		Page 67
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	28	116.621	-0.234	0.000	0.11	8.5	OK
1.001	2	29	116.480	-0.229	0.000	0.13	11.0	OK
1.002	3	29	116.189	-0.299	0.000	0.09	11.1	OK
1.003	4	30	116.077	-0.270	0.000	0.18	31.2	OK
2.000	5	24	118.438	-0.237	0.000	0.10	11.2	OK
2.001	6	25	118.257	-0.204	0.000	0.22	22.9	OK
2.002	6	25	118.003	-0.210	0.000	0.19	26.3	OK
2.003	8	28	117.122	-0.226	0.000	0.14	32.8	OK
3.000	9.1	24	118.284	-0.141	0.000	0.30	15.8	OK
3.001	9	29	116.934	-0.211	0.000	0.19	15.7	OK
3.002	10	29	116.719	-0.264	0.000	0.19	19.9	OK
3.003	11	31	116.574	-0.308	0.000	0.21	36.8	OK
4.000	12	28	117.114	-0.172	0.000	0.13	12.9	OK
3.004	13	31	116.375	-0.385	0.000	0.16	48.7	OK
3.005	14	32	116.214	-0.339	0.000	0.27	66.1	OK
3.006	15	32	116.091	-0.374	0.000	0.30	67.9	OK
2.004	16	32	116.063	-0.380	0.000	0.28	98.7	OK
2.005	17	32	115.966	-0.387	0.000	0.27	112.7	OK
5.000	18	29	116.698	-0.189	0.000	0.06	7.2	OK
2.006	19	32	115.804	-0.375	0.000	0.30	124.2	OK
2.007	20	32	115.642	-0.365	0.000	0.33	130.6	OK
1.004	21	32	115.533	-0.315	0.000	0.46	160.2	OK

M-EC		Page 68
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	33	115.312	-0.475	0.000	0.29		180.1	OK
6.000	23	27	116.779	-0.151	0.000	0.23		10.2	OK
6.001	24	28	116.550	-0.143	0.000	0.28		10.3	OK
6.002	25	29	116.421	-0.204	0.000	0.22		16.4	OK
6.003	26	29	116.140	-0.175	0.000	0.36		22.0	OK
6.004	27	30	116.009	-0.247	0.000	0.24		30.8	OK
6.005	28	32	115.699	-0.284	0.000	0.13		31.0	OK
1.006	29	36	115.144	-0.486	0.000	0.27		224.7	OK
7.000	30	24	118.099	-0.161	0.000	0.17		6.8	OK
7.001	31	25	117.923	-0.172	0.000	0.13		14.9	OK
1.007	8	33	115.041	-0.300	0.000	0.32		237.1	OK
8.000	60	26	116.683	-0.173	0.000	0.12		4.6	OK
8.001	61	27	116.427	-0.257	0.000	0.05		5.2	OK
8.002	35	28	116.162	-0.266	0.000	0.03		7.5	OK
1.008	10	33	114.994	-0.085	0.000	0.73		242.0	OK
9.000	62	24	119.093	-0.207	0.000	0.20		16.7	OK
10.000	40	24	118.877	-0.091	0.000	0.80		49.2	OK
9.001	63	24	118.778	-0.201	0.000	0.43		73.0	OK
9.002	64	24	118.257	-0.261	0.000	0.20		91.7	OK
9.003	148	36	115.004	-0.262	0.000	0.37		94.0	OK
1.009	11	33	114.981	-0.079	0.000	0.44		320.7	OK
1.010	12	33	114.896	-0.080	0.000	0.87		325.4	OK
1.011	13	33	114.884	-0.070	0.000	0.75		326.4	OK
1.012	14	33	114.851	-0.070	0.000	0.34		323.6	OK
1.013	15	33	114.795	-0.075	0.000	0.71		325.6	OK
1.014	16	33	114.781	-0.066	0.000	0.36		329.7	OK
11.000	TWC16	24	117.687	-0.154	0.000	0.21		20.6	OK
11.001	TWC17	31	115.497	-0.163	0.000	0.17		20.7	OK
1.015	17	33	114.717	-0.153	0.000	0.23		325.5	OK
1.016	18	34	114.646	-0.121	0.000	0.24		324.2	OK
12.000	TWC1	24	117.642	-0.159	0.000	0.18		6.9	OK
12.001	TWC2	24	117.489	-0.147	0.000	0.26		9.8	OK
12.002	TWC3	26	117.265	-0.105	0.000	0.56		19.1	OK
12.003	TWC4	26	117.195	-0.102	0.000	0.57		19.0	OK
13.000	TWC5	24	118.153	-0.137	0.000	0.31		11.9	OK
13.001	TWC6	25	117.964	-0.104	0.000	0.56		21.0	OK
13.002	TWC7	26	117.767	-0.131	0.000	0.37		26.3	OK
12.004	TWC8	26	117.071	-0.171	0.000	0.51		49.7	OK
12.005	TWC9	26	117.008	-0.160	0.000	0.61		54.1	OK
12.006	TWC10	27	116.898	-0.222	0.000	0.35		56.1	OK
1.017	TWC11	35	114.567	-0.100	0.000	0.20		285.0	OK
1.018	19	35	114.497	-0.096	0.000	0.12		251.7	OK
14.000	TWC12	24	117.235	-0.174	0.000	0.11		4.1	OK
14.001	TWC13	25	117.063	-0.189	0.000	0.06		7.7	OK
14.002	TWC14	28	116.121	-0.158	0.000	0.19		15.1	OK
1.019	TWC15	35	114.407	0.079	0.000	0.18		225.3	SURCHARGED
15.000	65	25	117.171	-0.198	0.000	0.24		16.8	OK
16.000	136	24	118.035	-0.179	0.000	0.09		5.4	OK
16.001	137	24	117.730	-0.177	0.000	0.10		5.6	OK

M-EC		Page 69
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	25	117.475	-0.244	0.000	0.08		10.1	OK
15.001	66	27	116.953	-0.233	0.000	0.30		35.8	OK
15.002	67	28	116.822	-0.222	0.000	0.35		39.8	OK
17.000	9	24	117.310	-0.274	0.000	0.02		1.4	OK
17.001	75	26	117.166	-0.231	0.000	0.12		9.2	OK
17.002	76	28	116.765	-0.455	0.000	0.04		17.6	OK
15.003	68	28	116.604	-0.341	0.000	0.26		62.9	OK
15.004	69	28	116.432	-0.385	0.000	0.24		75.3	OK
15.005	70	29	116.370	-0.358	0.000	0.26		74.4	OK
15.006	71	29	116.338	-0.336	0.000	0.27		84.2	OK
18.000	147	25	116.791	-0.180	0.000	0.09		3.4	OK
18.001	112	28	116.623	-0.224	0.000	0.15		7.6	OK
18.002	113	28	116.456	-0.347	0.000	0.08		9.9	OK
19.000	115	24	117.300	-0.194	0.000	0.05		2.2	OK
19.001	116	25	117.047	-0.183	0.000	0.08		6.1	OK
18.003	77	28	116.419	-0.331	0.000	0.14		17.5	OK
20.000	134	24	117.252	-0.180	0.000	0.09		7.4	OK
18.004	135	28	116.361	-0.339	0.000	0.17		29.4	OK
18.005	78	29	116.326	-0.319	0.000	0.18		31.5	OK
15.007	72	29	116.306	-0.292	0.000	0.40		115.5	OK
15.008	73	29	116.230	-0.224	0.000	0.54		114.5	OK
15.009	74	29	116.186	-0.225	0.000	0.71		115.3	OK
15.010	98	29	116.066	-0.319	0.000	0.42		113.6	OK
15.011	99	29	115.947	-0.336	0.000	0.39		110.6	OK
15.012	101	29	115.761	-0.338	0.000	0.40		109.7	OK
21.000	142	24	117.130	-0.159	0.000	0.18		8.5	OK
21.001	143	26	116.712	-0.155	0.000	0.21		12.7	OK
22.000	118	25	117.101	-0.205	0.000	0.02		0.6	OK
22.001	119	27	117.046	-0.174	0.000	0.12		3.8	OK
22.002	120	27	117.000	-0.161	0.000	0.18		11.3	OK
23.000	129	27	116.636	-0.241	0.000	0.08		6.8	OK
23.001	130	27	116.499	-0.243	0.000	0.08		8.1	OK
22.003	121	29	116.324	-0.170	0.000	0.39		25.4	OK
24.000	131	25	116.935	-0.144	0.000	0.27		11.4	OK
24.001	132	27	116.678	-0.104	0.000	0.55		15.1	OK
24.002	133	28	116.514	-0.226	0.000	0.14		17.6	OK
22.004	122	29	116.137	-0.288	0.000	0.25		46.0	OK
22.005	123	29	116.081	-0.248	0.000	0.34		51.5	OK
25.000	139	26	116.746	-0.141	0.000	0.29		8.0	OK
25.001	140	28	116.631	-0.143	0.000	0.28		17.5	OK
22.006	124	29	116.033	-0.229	0.000	0.47		71.0	OK
22.007	125	29	115.816	-0.390	0.000	0.26		71.6	OK
22.008	126	30	115.639	-0.521	0.000	0.14		76.2	OK
22.009	127	30	115.597	-0.466	0.000	0.30		74.4	OK
21.002	149	31	115.429	-0.586	0.000	0.11		85.1	OK
1.020	20	34	114.402	0.848	0.000	4.09		271.4	SURCHARGED
1.021	108	32	114.044	0.499	0.000	1.06		266.9	SURCHARGED
1.022	21	32	113.947	0.538	0.000	1.03		263.6	SURCHARGED
1.023	22	31	113.831	0.610	0.000	1.08		263.2	SURCHARGED

M-EC		Page 70
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	24	119.332	-0.606	0.000	0.02		15.5	OK
26.001	90	24	119.003	-0.604	0.000	0.02		18.3	OK
27.000	200	24	119.563	-0.253	0.000	0.06		9.0	OK
27.001	109	24	118.846	-0.433	0.000	0.07		9.9	OK
26.002	91	24	118.608	-0.640	0.000	0.05		28.5	OK
28.000	TWD27	24	119.393	-0.224	0.000	0.14		18.3	OK
26.003	91A	24	118.477	-0.685	0.000	0.07		50.2	OK
26.004	92	24	118.404	-0.660	0.000	0.09		57.2	OK
26.005	93	25	118.324	-0.679	0.000	0.07		56.9	OK
29.000	TWD29	24	119.414	-0.151	0.000	0.23		8.3	OK
29.001	TWD30	24	119.252	-0.206	0.000	0.21		13.6	OK
29.002	TWD31	25	119.113	-0.235	0.000	0.10		18.1	OK
26.006	94	25	118.214	-0.652	0.000	0.10		74.9	OK
26.007	95	25	118.105	-0.650	0.000	0.10		76.2	OK
30.000	201	24	119.218	-0.223	0.000	0.14		12.1	OK
30.001	202	24	118.986	-0.204	0.000	0.22		16.3	OK
30.002	203	25	118.928	-0.173	0.000	0.37		27.9	OK
30.003	204	25	118.707	-0.276	0.000	0.16		32.8	OK
30.004	117	26	118.445	-0.226	0.000	0.34		34.8	OK
26.008	95A	25	117.997	-0.614	0.000	0.15		116.8	OK
26.009	96	26	117.800	-0.633	0.000	0.12		115.8	OK
26.010	97	26	117.391	-0.647	0.000	0.10		114.9	OK
31.000	121	24	117.057	-0.563	0.000	0.21		77.0	OK
32.000	TWD4	24	120.084	-0.177	0.000	0.10		4.9	OK
32.001	TWD5	25	119.887	-0.162	0.000	0.17		10.3	OK
33.000	TWD16	24	119.519	-0.192	0.000	0.27		17.6	OK
32.002	TWD6	24	119.350	-0.238	0.000	0.28		30.2	OK
34.000	TWD17	24	119.536	-0.171	0.000	0.13		6.7	OK
35.000	TWD18	24	119.464	-0.174	0.000	0.11		4.6	OK
32.003	TWD7	25	119.196	-0.244	0.000	0.26		43.4	OK
32.004	TWD8	25	118.689	-0.294	0.000	0.26		52.8	OK
32.005	TWD9	26	118.582	-0.269	0.000	0.33		56.0	OK
32.006	TWD10	26	118.533	-0.268	0.000	0.34		57.1	OK
36.000	TWD19	24	119.574	-0.147	0.000	0.26		17.5	OK
32.007	TWD11	26	117.425	-0.296	0.000	0.49		74.6	OK
37.000	TWD20	24	119.326	-0.160	0.000	0.18		6.7	OK
37.001	TWD21	25	119.061	-0.210	0.000	0.19		13.1	OK
37.002	TWD22	26	118.872	-0.194	0.000	0.27		17.9	OK
37.003	TWD23	26	118.605	-0.255	0.000	0.22		23.1	OK
37.004	TWD24	26	118.501	-0.285	0.000	0.13		26.8	OK
37.005	TWD25	26	118.015	-0.283	0.000	0.13		30.4	OK
32.008	TWD12	27	117.298	-0.402	0.000	0.32		111.3	OK
38.000	TWD26	24	119.270	-0.180	0.000	0.09		8.8	OK
32.009	TWD13	27	117.182	-0.433	0.000	0.27		118.5	OK
32.010	TWD14	27	117.122	-0.425	0.000	0.29		120.7	OK
32.011	TWD15	27	117.072	-0.423	0.000	0.40		125.0	OK
26.011	98	27	116.795	-0.793	0.000	0.13		292.8	OK
26.012	99	27	116.267	-0.753	0.000	0.18		295.0	OK
26.013	100	27	116.122	-0.607	0.000	0.37		292.4	OK

M-EC		Page 71
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	31	113.770	0.638	0.000	1.67		434.0	SURCHARGED
1.025	24	31	113.162	0.236	0.000	1.66		423.9	SURCHARGED
1.026	25	31	112.639	-0.150	0.000	0.66		421.2	OK
39.000	79	24	121.669	-0.504	0.000	0.01		3.8	OK
39.001	80	25	121.287	-0.472	0.000	0.02		10.1	OK
39.002	81	25	120.721	-0.606	0.000	0.02		12.4	OK
40.000	130	27	121.026	-0.175	0.000	0.11		3.8	OK
41.000	BAR1	24	121.702	-0.103	0.000	0.21		6.0	OK
41.001	131	24	120.882	-0.292	0.000	0.11		10.4	OK
39.003	81A	26	120.553	-0.581	0.000	0.05		28.5	OK
42.000	133	27	120.683	-0.263	0.000	0.04		2.1	OK
39.004	82	26	120.281	-0.624	0.000	0.07		35.8	OK
39.005	83	26	120.199	-0.636	0.000	0.06		35.5	OK
43.000	BAR2	24	121.530	-0.099	0.000	0.25		7.8	OK
43.001	136	24	120.420	-0.272	0.000	0.17		12.2	OK
39.006	83A	26	120.066	-0.604	0.000	0.08		50.3	OK
44.000	206	26	120.507	-0.350	0.000	0.07		7.9	OK
44.001	207	27	120.484	-0.336	0.000	0.08		9.7	OK
44.002	208	27	120.465	-0.311	0.000	0.12		15.8	OK
44.003	209	27	120.434	-0.270	0.000	0.17		16.0	OK
45.000	210	24	120.909	-0.176	0.000	0.10		4.7	OK
45.001	211	24	120.713	-0.229	0.000	0.13		8.4	OK
45.002	212	26	120.466	-0.290	0.000	0.12		12.5	OK
44.004	213	27	120.427	-0.255	0.000	0.34		35.4	OK
44.005	214	27	120.388	-0.258	0.000	0.28		37.0	OK
44.006	215	27	120.343	-0.238	0.000	0.45		42.6	OK
44.007	138	27	120.286	-0.271	0.000	0.33		42.3	OK
39.007	84	27	119.930	-0.595	0.000	0.17		100.6	OK
46.000	BAR4	24	121.568	-0.141	0.000	0.29		10.9	OK
46.001	BAR5	24	121.366	-0.122	0.000	0.43		15.3	OK
47.000	BAR6	24	122.054	-0.097	0.000	0.26		4.4	OK
47.001	BAR7	25	121.725	-0.146	0.000	0.27		9.8	OK
47.002	BAR8	25	121.576	-0.151	0.000	0.23		13.7	OK
46.002	BAR9	26	121.232	-0.147	0.000	0.52		32.0	OK
46.003	BAR10	26	121.101	-0.200	0.000	0.24		40.0	OK
46.004	140	26	120.224	-0.271	0.000	0.33		39.8	OK
39.008	85	27	119.878	-0.590	0.000	0.18		139.2	OK
39.009	86	27	119.743	-0.591	0.000	0.18		142.9	OK
48.000	BAR3	24	120.838	-0.110	0.000	0.16		5.2	OK
48.001	143	25	119.817	-0.357	0.000	0.09		10.6	OK
49.000	216	24	120.432	-0.238	0.000	0.10		16.4	OK
49.001	144	24	119.853	-0.342	0.000	0.13		17.1	OK
39.010	87	27	119.503	-0.649	0.000	0.17		165.7	OK
39.011	88	27	119.380	-0.627	0.000	0.20		191.1	OK
39.012	103	27	119.234	-0.617	0.000	0.21		203.5	OK
50.000	BAR11	24	121.353	-0.092	0.000	0.31		5.3	OK
50.001	BAR12	25	120.989	-0.149	0.000	0.25		12.6	OK
51.000	BAR13	24	120.793	-0.175	0.000	0.07		2.1	OK
50.002	BAR14	25	120.783	-0.136	0.000	0.33		17.6	OK

M-EC		Page 72
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	24	120.858	-0.093	0.000	0.30		5.0	OK
52.001	BAR16	24	120.570	-0.156	0.000	0.20		8.8	OK
50.003	BAR17	25	120.462	-0.156	0.000	0.46		28.5	OK
50.004	BAR18	26	120.390	-0.151	0.000	0.50		31.2	OK
50.005	BAR19	26	120.240	-0.209	0.000	0.20		34.8	OK
50.006	149	26	119.414	-0.311	0.000	0.20		34.5	OK
53.000	TWD1	24	120.436	-0.178	0.000	0.09		3.6	OK
54.000	TWD3	24	120.682	-0.200	0.000	0.03		2.3	OK
53.001	TWD2	25	120.074	-0.172	0.000	0.12		11.1	OK
39.013	104	27	119.062	-0.608	0.000	0.37		246.1	OK
39.014	104A	27	118.925	-0.710	0.000	0.22		243.8	OK
55.000	BAR20	24	121.409	-0.084	0.000	0.40		6.9	OK
55.001	BAR21	24	120.902	-0.151	0.000	0.23		12.6	OK
56.000	BAR22	24	120.466	-0.139	0.000	0.30		11.1	OK
56.001	BAR23	24	120.349	-0.120	0.000	0.44		14.3	OK
55.002	BAR24	25	120.235	-0.179	0.000	0.34		27.8	OK
55.003	BAR25	25	119.960	-0.234	0.000	0.30		32.5	OK
55.004	BAR26	25	119.828	-0.288	0.000	0.12		38.3	OK
39.015	105	27	118.752	-0.722	0.000	0.20		267.9	OK
39.016	106	27	118.585	-1.562	0.000	0.03		256.7	OK
39.017	107	27	115.910	-0.637	0.000	0.14		254.2	OK
1.027	26	31	112.220	-0.688	0.000	0.18		665.1	OK
1.028	27	29	109.396	-0.351	0.000	0.32		661.6	OK
1.029	28	29	106.455	-0.736	0.000	0.14		641.4	OK
1.030	29	30	97.497	-0.980	0.000	0.11		630.3	OK
1.031	30	30	92.936	-0.446	0.000	0.30		615.1	OK
1.032	31	33	91.790	-0.460	0.000	0.37		580.2	OK
1.033	32	34	91.301	-0.822	0.000	0.18		559.8	OK
1.034	33	50	90.173	-0.100	0.000	0.96		235.5	OK*
57.000	108	32	91.109	-0.777	0.000	0.22		360.6	OK
57.001	109	37	90.890	-0.996	0.000	0.14		274.6	OK
57.002	110	39	90.585	-1.301	0.000	0.08		203.7	OK
1.035	109	49	89.992	0.126	0.000	0.27		65.0	SURCHARGED*
1.036	34	35	86.650	0.000	0.000	0.66		54.8	SURCHARGED*



M-EC		Page 73
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	32	116.608	-0.247	0.000	0.07	5.7	OK
1.001	2	32	116.467	-0.242	0.000	0.08	7.3	OK
1.002	3	32	116.172	-0.316	0.000	0.06	7.3	OK
1.003	4	33	116.059	-0.288	0.000	0.12	21.3	OK
2.000	5	32	118.425	-0.250	0.000	0.06	7.4	OK
2.001	6	32	118.239	-0.222	0.000	0.15	15.7	OK
2.002	6	32	117.986	-0.227	0.000	0.13	17.8	OK
2.003	8	32	117.110	-0.238	0.000	0.09	22.4	OK
3.000	9.1	32	118.268	-0.157	0.000	0.19	10.1	OK
3.001	9	32	116.916	-0.229	0.000	0.12	10.1	OK
3.002	10	32	116.697	-0.286	0.000	0.13	13.4	OK
3.003	11	33	116.548	-0.334	0.000	0.15	25.6	OK
4.000	12	32	117.104	-0.182	0.000	0.08	8.6	OK
3.004	13	33	116.351	-0.409	0.000	0.11	33.9	OK
3.005	14	34	116.184	-0.369	0.000	0.19	46.0	OK
3.006	15	34	116.053	-0.412	0.000	0.21	46.8	OK
2.004	16	34	116.027	-0.416	0.000	0.20	68.3	OK
2.005	17	34	115.931	-0.422	0.000	0.18	77.2	OK
5.000	18	32	116.691	-0.196	0.000	0.04	4.8	OK
2.006	19	34	115.767	-0.412	0.000	0.20	84.5	OK
2.007	20	34	115.603	-0.404	0.000	0.22	89.5	OK
1.004	21	35	115.485	-0.363	0.000	0.32	109.6	OK

M-EC		Page 74
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	36	115.269	-0.518	0.000	0.20		124.6	OK
6.000	23	32	116.764	-0.166	0.000	0.15		6.9	OK
6.001	24	32	116.534	-0.159	0.000	0.19		6.9	OK
6.002	25	32	116.402	-0.223	0.000	0.15		11.0	OK
6.003	26	32	116.116	-0.199	0.000	0.24		15.0	OK
6.004	27	33	115.986	-0.270	0.000	0.17		21.4	OK
6.005	28	34	115.685	-0.298	0.000	0.09		21.3	OK
1.006	29	37	115.103	-0.527	0.000	0.19		157.2	OK
7.000	30	32	118.086	-0.174	0.000	0.12		4.5	OK
7.001	31	32	117.915	-0.180	0.000	0.09		10.2	OK
1.007	8	38	114.833	-0.508	0.000	0.23		169.1	OK
8.000	60	32	116.673	-0.183	0.000	0.08		3.1	OK
8.001	61	32	116.419	-0.265	0.000	0.03		3.5	OK
8.002	35	32	116.157	-0.271	0.000	0.02		5.1	OK
1.008	10	38	114.652	-0.427	0.000	0.53		174.4	OK
9.000	62	32	119.073	-0.227	0.000	0.13		11.2	OK
10.000	40	32	118.825	-0.143	0.000	0.53		32.9	OK
9.001	63	32	118.742	-0.237	0.000	0.29		48.0	OK
9.002	64	32	118.234	-0.284	0.000	0.13		60.8	OK
9.003	148	37	114.968	-0.298	0.000	0.24		62.5	OK
1.009	11	38	114.621	-0.439	0.000	0.32		235.6	OK
1.010	12	38	114.580	-0.396	0.000	0.64		239.4	OK
1.011	13	38	114.574	-0.380	0.000	0.55		239.8	OK
1.012	14	37	114.562	-0.359	0.000	0.25		238.7	OK
1.013	15	37	114.543	-0.327	0.000	0.51		235.2	OK
1.014	16	37	114.538	-0.309	0.000	0.25		229.3	OK
11.000	TWC16	32	117.672	-0.169	0.000	0.14		13.9	OK
11.001	TWC17	33	115.485	-0.175	0.000	0.11		13.9	OK
1.015	17	37	114.512	-0.358	0.000	0.16		226.9	OK
1.016	18	38	114.456	-0.311	0.000	0.14		191.8	OK
12.000	TWC1	32	117.628	-0.173	0.000	0.12		4.6	OK
12.001	TWC2	32	117.474	-0.162	0.000	0.17		6.5	OK
12.002	TWC3	32	117.242	-0.128	0.000	0.38		13.1	OK
12.003	TWC4	32	117.171	-0.126	0.000	0.39		13.0	OK
13.000	TWC5	32	118.135	-0.155	0.000	0.21		7.9	OK
13.001	TWC6	32	117.940	-0.128	0.000	0.38		14.2	OK
13.002	TWC7	32	117.750	-0.148	0.000	0.25		17.8	OK
12.004	TWC8	32	117.030	-0.212	0.000	0.35		34.0	OK
12.005	TWC9	32	116.965	-0.203	0.000	0.42		36.8	OK
12.006	TWC10	32	116.870	-0.250	0.000	0.23		37.8	OK
1.017	TWC11	37	114.411	-0.256	0.000	0.13		190.4	OK
1.018	19	37	114.363	-0.230	0.000	0.09		180.9	OK
14.000	TWC12	32	117.225	-0.184	0.000	0.07		2.8	OK
14.001	TWC13	32	117.056	-0.196	0.000	0.04		5.2	OK
14.002	TWC14	32	116.108	-0.171	0.000	0.13		10.5	OK
1.019	TWC15	37	114.307	-0.021	0.000	0.15		191.5	OK
15.000	65	32	117.150	-0.219	0.000	0.16		11.2	OK
16.000	136	32	118.025	-0.189	0.000	0.06		3.6	OK
16.001	137	32	117.720	-0.187	0.000	0.07		3.8	OK

M-EC		Page 75
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	32	117.464	-0.255	0.000	0.05		6.9	OK
15.001	66	32	116.926	-0.260	0.000	0.20		23.9	OK
15.002	67	32	116.794	-0.250	0.000	0.24		26.7	OK
17.000	9	32	117.301	-0.283	0.000	0.01		1.0	OK
17.001	75	32	117.155	-0.242	0.000	0.08		6.3	OK
17.002	76	32	116.755	-0.465	0.000	0.03		12.2	OK
15.003	68	32	116.572	-0.373	0.000	0.18		43.2	OK
15.004	69	32	116.395	-0.422	0.000	0.16		51.8	OK
15.005	70	32	116.324	-0.404	0.000	0.18		50.9	OK
15.006	71	32	116.288	-0.386	0.000	0.19		58.9	OK
18.000	147	32	116.781	-0.190	0.000	0.06		2.3	OK
18.001	112	32	116.610	-0.237	0.000	0.10		5.2	OK
18.002	113	32	116.437	-0.366	0.000	0.05		6.7	OK
19.000	115	32	117.295	-0.199	0.000	0.03		1.5	OK
19.001	116	32	117.039	-0.191	0.000	0.05		4.2	OK
18.003	77	32	116.397	-0.353	0.000	0.10		12.1	OK
20.000	134	32	117.242	-0.190	0.000	0.06		4.9	OK
18.004	135	32	116.329	-0.371	0.000	0.12		20.6	OK
18.005	78	32	116.281	-0.364	0.000	0.13		22.4	OK
15.007	72	32	116.251	-0.347	0.000	0.30		85.3	OK
15.008	73	32	116.170	-0.284	0.000	0.41		86.8	OK
15.009	74	32	116.126	-0.285	0.000	0.53		85.7	OK
15.010	98	32	116.028	-0.357	0.000	0.32		86.7	OK
15.011	99	32	115.908	-0.375	0.000	0.30		85.4	OK
15.012	101	32	115.728	-0.371	0.000	0.31		85.5	OK
21.000	142	32	117.116	-0.173	0.000	0.12		5.7	OK
21.001	143	32	116.699	-0.168	0.000	0.14		8.4	OK
22.000	118	32	117.094	-0.212	0.000	0.01		0.4	OK
22.001	119	32	117.038	-0.182	0.000	0.08		2.6	OK
22.002	120	32	116.989	-0.172	0.000	0.13		7.8	OK
23.000	129	32	116.622	-0.255	0.000	0.06		4.5	OK
23.001	130	32	116.487	-0.255	0.000	0.05		5.4	OK
22.003	121	32	116.300	-0.194	0.000	0.27		17.4	OK
24.000	131	32	116.919	-0.160	0.000	0.18		7.6	OK
24.001	132	32	116.653	-0.130	0.000	0.37		10.1	OK
24.002	133	32	116.502	-0.239	0.000	0.09		11.8	OK
22.004	122	32	116.105	-0.319	0.000	0.17		31.0	OK
22.005	123	32	116.042	-0.287	0.000	0.23		35.0	OK
25.000	139	32	116.729	-0.157	0.000	0.20		5.3	OK
25.001	140	32	116.616	-0.158	0.000	0.19		11.9	OK
22.006	124	32	115.991	-0.270	0.000	0.32		48.6	OK
22.007	125	32	115.780	-0.427	0.000	0.18		48.3	OK
22.008	126	32	115.595	-0.564	0.000	0.09		51.2	OK
22.009	127	33	115.548	-0.515	0.000	0.21		52.1	OK
21.002	149	33	115.402	-0.613	0.000	0.08		60.2	OK
1.020	20	38	114.191	0.637	0.000	3.82		253.1	SURCHARGED
1.021	108	37	113.880	0.335	0.000	1.01		252.9	SURCHARGED
1.022	21	37	113.788	0.379	0.000	0.99		252.3	SURCHARGED
1.023	22	35	113.662	0.441	0.000	1.04		255.4	SURCHARGED

M-EC		Page 76
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	32	119.310	-0.628	0.000	0.01		10.4	OK
26.001	90	32	118.984	-0.623	0.000	0.02		12.3	OK
27.000	200	32	119.554	-0.262	0.000	0.04		6.0	OK
27.001	109	32	118.827	-0.452	0.000	0.05		6.7	OK
26.002	91	32	118.588	-0.660	0.000	0.03		18.9	OK
28.000	TWD27	32	119.379	-0.238	0.000	0.09		12.2	OK
26.003	91A	32	118.448	-0.714	0.000	0.04		33.3	OK
26.004	92	32	118.368	-0.696	0.000	0.06		37.7	OK
26.005	93	32	118.296	-0.707	0.000	0.05		37.3	OK
29.000	TWD29	32	119.399	-0.166	0.000	0.15		5.6	OK
29.001	TWD30	32	119.233	-0.225	0.000	0.14		9.1	OK
29.002	TWD31	32	119.100	-0.248	0.000	0.07		12.3	OK
26.006	94	32	118.180	-0.686	0.000	0.06		49.5	OK
26.007	95	32	118.070	-0.685	0.000	0.07		50.4	OK
30.000	201	32	119.204	-0.237	0.000	0.10		8.1	OK
30.001	202	32	118.967	-0.223	0.000	0.15		11.0	OK
30.002	203	32	118.903	-0.198	0.000	0.25		18.9	OK
30.003	204	32	118.690	-0.293	0.000	0.11		22.2	OK
30.004	117	32	118.418	-0.253	0.000	0.23		23.4	OK
26.008	95A	32	117.960	-0.651	0.000	0.10		77.1	OK
26.009	96	32	117.768	-0.665	0.000	0.08		78.8	OK
26.010	97	32	117.356	-0.682	0.000	0.07		79.1	OK
31.000	121	32	117.002	-0.618	0.000	0.14		51.8	OK
32.000	TWD4	32	120.074	-0.187	0.000	0.07		3.2	OK
32.001	TWD5	32	119.876	-0.173	0.000	0.12		7.1	OK
33.000	TWD16	32	119.497	-0.214	0.000	0.18		11.8	OK
32.002	TWD6	32	119.324	-0.264	0.000	0.19		20.1	OK
34.000	TWD17	32	119.526	-0.181	0.000	0.09		4.4	OK
35.000	TWD18	32	119.454	-0.184	0.000	0.08		3.1	OK
32.003	TWD7	32	119.172	-0.268	0.000	0.18		29.2	OK
32.004	TWD8	32	118.661	-0.322	0.000	0.18		36.0	OK
32.005	TWD9	32	118.548	-0.303	0.000	0.23		38.2	OK
32.006	TWD10	32	118.498	-0.303	0.000	0.23		38.4	OK
36.000	TWD19	32	119.558	-0.163	0.000	0.17		11.7	OK
32.007	TWD11	32	117.366	-0.355	0.000	0.34		51.4	OK
37.000	TWD20	32	119.312	-0.174	0.000	0.12		4.5	OK
37.001	TWD21	32	119.044	-0.227	0.000	0.13		8.8	OK
37.002	TWD22	32	118.854	-0.212	0.000	0.18		12.4	OK
37.003	TWD23	32	118.584	-0.276	0.000	0.15		16.1	OK
37.004	TWD24	32	118.487	-0.299	0.000	0.09		18.7	OK
37.005	TWD25	32	118.001	-0.297	0.000	0.09		21.2	OK
32.008	TWD12	32	117.249	-0.451	0.000	0.22		75.5	OK
38.000	TWD26	32	119.260	-0.190	0.000	0.06		5.8	OK
32.009	TWD13	32	117.126	-0.489	0.000	0.19		83.5	OK
32.010	TWD14	32	117.065	-0.482	0.000	0.21		86.7	OK
32.011	TWD15	32	117.016	-0.479	0.000	0.29		90.0	OK
26.011	98	32	116.758	-0.830	0.000	0.10		212.8	OK
26.012	99	32	116.219	-0.801	0.000	0.13		213.0	OK
26.013	100	32	116.049	-0.680	0.000	0.27		210.0	OK

M-EC		Page 77
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 120 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	35	113.594	0.462	0.000	1.52	394.1	SURCHARGED
1.025	24	35	113.099	0.173	0.000	1.51	386.4	SURCHARGED
1.026	25	35	112.628	-0.161	0.000	0.60	385.0	OK
39.000	79	32	121.662	-0.511	0.000	0.01	2.5	OK
39.001	80	32	121.270	-0.489	0.000	0.01	6.9	OK
39.002	81	32	120.702	-0.625	0.000	0.02	8.5	OK
40.000	130	32	121.019	-0.182	0.000	0.08	2.7	OK
41.000	BAR1	32	121.692	-0.113	0.000	0.14	4.0	OK
41.001	131	32	120.867	-0.307	0.000	0.07	7.1	OK
39.003	81A	32	120.538	-0.596	0.000	0.03	19.4	OK
42.000	133	32	120.679	-0.267	0.000	0.03	1.5	OK
39.004	82	32	120.259	-0.646	0.000	0.05	24.5	OK
39.005	83	32	120.180	-0.655	0.000	0.04	24.1	OK
43.000	BAR2	32	121.520	-0.109	0.000	0.17	5.2	OK
43.001	136	32	120.401	-0.291	0.000	0.11	8.3	OK
39.006	83A	32	120.038	-0.632	0.000	0.06	34.4	OK
44.000	206	32	120.486	-0.371	0.000	0.05	5.4	OK
44.001	207	32	120.461	-0.358	0.000	0.06	6.7	OK
44.002	208	32	120.437	-0.339	0.000	0.08	11.1	OK
44.003	209	32	120.402	-0.302	0.000	0.12	11.1	OK
45.000	210	32	120.899	-0.186	0.000	0.07	3.1	OK
45.001	211	32	120.701	-0.241	0.000	0.08	5.6	OK
45.002	212	32	120.451	-0.305	0.000	0.08	8.4	OK
44.004	213	32	120.394	-0.288	0.000	0.24	24.6	OK
44.005	214	32	120.355	-0.290	0.000	0.19	26.0	OK
44.006	215	32	120.308	-0.273	0.000	0.32	30.4	OK
44.007	138	32	120.256	-0.301	0.000	0.24	30.5	OK
39.007	84	32	119.893	-0.632	0.000	0.12	70.1	OK
46.000	BAR4	32	121.551	-0.158	0.000	0.19	7.2	OK
46.001	BAR5	32	121.345	-0.143	0.000	0.28	10.2	OK
47.000	BAR6	32	122.043	-0.108	0.000	0.17	2.9	OK
47.001	BAR7	32	121.711	-0.160	0.000	0.18	6.6	OK
47.002	BAR8	32	121.562	-0.165	0.000	0.16	9.3	OK
46.002	BAR9	32	121.202	-0.177	0.000	0.35	21.4	OK
46.003	BAR10	32	121.083	-0.218	0.000	0.17	27.0	OK
46.004	140	32	120.191	-0.304	0.000	0.22	26.9	OK
39.008	85	32	119.839	-0.629	0.000	0.12	95.9	OK
39.009	86	32	119.705	-0.629	0.000	0.13	101.4	OK
48.000	BAR3	32	120.830	-0.118	0.000	0.11	3.5	OK
48.001	143	32	119.798	-0.376	0.000	0.06	7.3	OK
49.000	216	32	120.419	-0.251	0.000	0.06	10.9	OK
49.001	144	32	119.834	-0.361	0.000	0.09	11.5	OK
39.010	87	32	119.463	-0.689	0.000	0.12	117.9	OK
39.011	88	32	119.335	-0.672	0.000	0.14	137.1	OK
39.012	103	32	119.188	-0.663	0.000	0.15	148.4	OK
50.000	BAR11	32	121.341	-0.104	0.000	0.21	3.6	OK
50.001	BAR12	32	120.975	-0.163	0.000	0.17	8.6	OK
51.000	BAR13	32	120.780	-0.188	0.000	0.04	1.4	OK
50.002	BAR14	32	120.766	-0.153	0.000	0.22	11.9	OK

M-EC		Page 78
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 120 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
52.000	BAR15	32	120.846	-0.105	0.000	0.20		3.4	OK
52.001	BAR16	32	120.556	-0.170	0.000	0.14		6.0	OK
50.003	BAR17	32	120.434	-0.184	0.000	0.31		19.1	OK
50.004	BAR18	32	120.362	-0.179	0.000	0.33		21.0	OK
50.005	BAR19	32	120.223	-0.226	0.000	0.14		23.7	OK
50.006	149	32	119.388	-0.337	0.000	0.14		23.5	OK
53.000	TWD1	32	120.426	-0.188	0.000	0.06		2.4	OK
54.000	TWD3	32	120.676	-0.206	0.000	0.02		1.5	OK
53.001	TWD2	32	120.065	-0.181	0.000	0.08		7.6	OK
39.013	104	32	118.988	-0.682	0.000	0.27		178.9	OK
39.014	104A	32	118.872	-0.763	0.000	0.16		178.8	OK
55.000	BAR20	32	121.395	-0.098	0.000	0.26		4.6	OK
55.001	BAR21	32	120.888	-0.165	0.000	0.16		8.5	OK
56.000	BAR22	32	120.449	-0.156	0.000	0.20		7.4	OK
56.001	BAR23	32	120.327	-0.142	0.000	0.29		9.6	OK
55.002	BAR24	32	120.212	-0.202	0.000	0.23		18.6	OK
55.003	BAR25	32	119.935	-0.259	0.000	0.20		21.8	OK
55.004	BAR26	32	119.814	-0.302	0.000	0.08		26.0	OK
39.015	105	32	118.700	-0.774	0.000	0.15		197.8	OK
39.016	106	32	118.524	-1.623	0.000	0.03		196.4	OK
39.017	107	32	115.862	-0.685	0.000	0.10		195.7	OK
1.027	26	35	112.185	-0.723	0.000	0.15		570.6	OK
1.028	27	34	109.365	-0.382	0.000	0.28		574.8	OK
1.029	28	35	106.419	-0.772	0.000	0.12		557.8	OK
1.030	29	34	97.467	-1.010	0.000	0.09		559.8	OK
1.031	30	34	92.902	-0.480	0.000	0.27		548.8	OK
1.032	31	36	91.758	-0.492	0.000	0.34		530.3	OK
1.033	32	37	91.276	-0.847	0.000	0.16		518.7	OK
1.034	33	48	90.223	-0.050	0.000	1.00		244.4	OK*
57.000	108	39	90.990	-0.896	0.000	0.16		259.9	OK
57.001	109	43	90.809	-1.077	0.000	0.11		220.5	OK
57.002	110	42	90.554	-1.332	0.000	0.07		184.1	OK
1.035	109	44	90.098	0.232	0.000	0.26		62.7	SURCHARGED*
1.036	34	40	86.650	0.000	0.000	0.67		55.6	SURCHARGED*

M-EC		Page 79
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	37	116.597	-0.258	0.000	0.05	3.7	OK
1.001	2	37	116.454	-0.255	0.000	0.06	4.8	OK
1.002	3	37	116.161	-0.327	0.000	0.04	4.8	OK
1.003	4	37	116.042	-0.305	0.000	0.08	14.0	OK
2.000	5	37	118.415	-0.260	0.000	0.04	4.9	OK
2.001	6	37	118.224	-0.237	0.000	0.10	10.3	OK
2.002	6	37	117.973	-0.240	0.000	0.09	11.8	OK
2.003	8	37	117.096	-0.252	0.000	0.06	14.8	OK
3.000	9.1	37	118.253	-0.172	0.000	0.13	6.7	OK
3.001	9	37	116.903	-0.242	0.000	0.08	6.7	OK
3.002	10	37	116.681	-0.302	0.000	0.08	8.9	OK
3.003	11	37	116.526	-0.356	0.000	0.10	17.0	OK
4.000	12	37	117.095	-0.191	0.000	0.05	5.6	OK
3.004	13	37	116.328	-0.432	0.000	0.07	22.6	OK
3.005	14	37	116.152	-0.401	0.000	0.12	30.7	OK
3.006	15	37	116.015	-0.450	0.000	0.14	31.4	OK
2.004	16	37	115.989	-0.454	0.000	0.13	45.8	OK
2.005	17	37	115.895	-0.458	0.000	0.12	52.0	OK
5.000	18	37	116.686	-0.201	0.000	0.03	3.1	OK
2.006	19	37	115.728	-0.451	0.000	0.14	57.1	OK
2.007	20	37	115.564	-0.443	0.000	0.15	60.5	OK
1.004	21	38	115.437	-0.411	0.000	0.21	74.1	OK

M-EC		Page 80
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	39	115.222	-0.565	0.000	0.14		84.2	OK
6.000	23	37	116.753	-0.177	0.000	0.10		4.5	OK
6.001	24	37	116.520	-0.173	0.000	0.12		4.5	OK
6.002	25	37	116.388	-0.237	0.000	0.10		7.3	OK
6.003	26	37	116.096	-0.219	0.000	0.16		9.9	OK
6.004	27	37	115.965	-0.291	0.000	0.11		14.3	OK
6.005	28	37	115.669	-0.314	0.000	0.06		14.2	OK
1.006	29	39	115.058	-0.572	0.000	0.13		105.9	OK
7.000	30	37	118.076	-0.184	0.000	0.08		3.0	OK
7.001	31	37	117.904	-0.191	0.000	0.06		6.7	OK
1.007	8	40	114.786	-0.555	0.000	0.15		113.8	OK
8.000	60	37	116.664	-0.192	0.000	0.05		2.0	OK
8.001	61	37	116.414	-0.270	0.000	0.02		2.3	OK
8.002	35	37	116.147	-0.281	0.000	0.01		3.4	OK
1.008	10	40	114.564	-0.515	0.000	0.35		117.2	OK
9.000	62	37	119.060	-0.240	0.000	0.09		7.3	OK
10.000	40	37	118.791	-0.177	0.000	0.35		21.6	OK
9.001	63	37	118.714	-0.265	0.000	0.19		31.7	OK
9.002	64	37	118.218	-0.300	0.000	0.09		40.1	OK
9.003	148	39	114.937	-0.329	0.000	0.16		41.2	OK
1.009	11	40	114.531	-0.529	0.000	0.22		159.5	OK
1.010	12	40	114.487	-0.489	0.000	0.43		161.9	OK
1.011	13	40	114.433	-0.521	0.000	0.37		162.4	OK
1.012	14	40	114.274	-0.647	0.000	0.17		162.2	OK
1.013	15	40	114.254	-0.616	0.000	0.35		162.0	OK
1.014	16	40	114.163	-0.684	0.000	0.18		161.4	OK
11.000	TWC16	37	117.662	-0.179	0.000	0.09		9.1	OK
11.001	TWC17	37	115.475	-0.185	0.000	0.07		9.1	OK
1.015	17	40	114.144	-0.726	0.000	0.12		166.3	OK
1.016	18	40	114.116	-0.651	0.000	0.12		154.8	OK
12.000	TWC1	37	117.619	-0.182	0.000	0.08		3.0	OK
12.001	TWC2	37	117.461	-0.175	0.000	0.11		4.3	OK
12.002	TWC3	37	117.222	-0.148	0.000	0.25		8.6	OK
12.003	TWC4	37	117.150	-0.147	0.000	0.26		8.6	OK
13.000	TWC5	37	118.120	-0.170	0.000	0.14		5.2	OK
13.001	TWC6	37	117.919	-0.149	0.000	0.25		9.4	OK
13.002	TWC7	37	117.734	-0.164	0.000	0.17		11.8	OK
12.004	TWC8	37	116.995	-0.247	0.000	0.23		22.6	OK
12.005	TWC9	37	116.929	-0.239	0.000	0.28		24.6	OK
12.006	TWC10	37	116.845	-0.275	0.000	0.16		25.4	OK
1.017	TWC11	40	114.089	-0.578	0.000	0.11		163.1	OK
1.018	19	40	114.064	-0.529	0.000	0.07		152.0	OK
14.000	TWC12	37	117.216	-0.193	0.000	0.05		1.8	OK
14.001	TWC13	37	117.052	-0.200	0.000	0.03		3.4	OK
14.002	TWC14	37	116.099	-0.180	0.000	0.09		6.9	OK
1.019	TWC15	40	114.036	-0.292	0.000	0.13		157.7	OK
15.000	65	37	117.134	-0.235	0.000	0.11		7.4	OK
16.000	136	37	118.018	-0.196	0.000	0.04		2.4	OK
16.001	137	37	117.712	-0.195	0.000	0.04		2.5	OK



M-EC		Page 81
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	37	117.455	-0.264	0.000	0.04		4.5	OK
15.001	66	37	116.902	-0.284	0.000	0.13		15.8	OK
15.002	67	37	116.768	-0.276	0.000	0.16		17.8	OK
17.000	9	37	117.295	-0.289	0.000	0.01		0.6	OK
17.001	75	37	117.142	-0.255	0.000	0.05		4.2	OK
17.002	76	37	116.745	-0.475	0.000	0.02		8.0	OK
15.003	68	37	116.541	-0.404	0.000	0.12		28.9	OK
15.004	69	38	116.356	-0.461	0.000	0.11		34.8	OK
15.005	70	38	116.281	-0.447	0.000	0.12		34.5	OK
15.006	71	38	116.242	-0.432	0.000	0.13		40.1	OK
18.000	147	37	116.774	-0.197	0.000	0.04		1.5	OK
18.001	112	37	116.597	-0.250	0.000	0.07		3.4	OK
18.002	113	37	116.418	-0.385	0.000	0.04		4.4	OK
19.000	115	37	117.291	-0.203	0.000	0.02		1.0	OK
19.001	116	37	117.032	-0.198	0.000	0.04		2.8	OK
18.003	77	37	116.374	-0.376	0.000	0.06		8.0	OK
20.000	134	37	117.235	-0.197	0.000	0.04		3.2	OK
18.004	135	38	116.294	-0.406	0.000	0.08		13.8	OK
18.005	78	38	116.240	-0.405	0.000	0.09		15.5	OK
15.007	72	39	116.200	-0.398	0.000	0.20		58.2	OK
15.008	73	39	116.108	-0.346	0.000	0.28		60.1	OK
15.009	74	39	116.064	-0.347	0.000	0.37		59.7	OK
15.010	98	39	115.984	-0.401	0.000	0.22		60.2	OK
15.011	99	39	115.869	-0.414	0.000	0.21		59.7	OK
15.012	101	39	115.688	-0.411	0.000	0.22		59.7	OK
21.000	142	37	117.107	-0.182	0.000	0.08		3.7	OK
21.001	143	37	116.688	-0.179	0.000	0.09		5.6	OK
22.000	118	37	117.089	-0.217	0.000	0.01		0.3	OK
22.001	119	37	117.029	-0.191	0.000	0.05		1.7	OK
22.002	120	37	116.979	-0.182	0.000	0.08		5.2	OK
23.000	129	37	116.614	-0.263	0.000	0.04		3.0	OK
23.001	130	37	116.478	-0.264	0.000	0.04		3.6	OK
22.003	121	37	116.279	-0.215	0.000	0.18		11.5	OK
24.000	131	37	116.905	-0.173	0.000	0.12		5.0	OK
24.001	132	37	116.633	-0.150	0.000	0.24		6.6	OK
24.002	133	37	116.488	-0.252	0.000	0.06		7.8	OK
22.004	122	37	116.076	-0.348	0.000	0.11		20.5	OK
22.005	123	37	116.007	-0.321	0.000	0.15		23.3	OK
25.000	139	37	116.715	-0.172	0.000	0.13		3.5	OK
25.001	140	37	116.602	-0.172	0.000	0.13		7.8	OK
22.006	124	37	115.954	-0.307	0.000	0.22		32.5	OK
22.007	125	37	115.745	-0.462	0.000	0.12		32.3	OK
22.008	126	38	115.556	-0.604	0.000	0.06		34.4	OK
22.009	127	38	115.500	-0.563	0.000	0.14		34.8	OK
21.002	149	38	115.373	-0.642	0.000	0.05		40.2	OK
1.020	20	40	113.991	0.437	0.000	3.51		232.6	SURCHARGED
1.021	108	40	113.662	0.117	0.000	0.92		230.2	SURCHARGED
1.022	21	40	113.561	0.152	0.000	0.90		229.0	SURCHARGED
1.023	22	40	113.421	0.200	0.000	0.95		232.9	SURCHARGED

M-EC		Page 82
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	37	119.293	-0.645	0.000	0.01		6.9	OK
26.001	90	37	118.966	-0.641	0.000	0.01		8.1	OK
27.000	200	37	119.548	-0.268	0.000	0.03		3.9	OK
27.001	109	37	118.814	-0.465	0.000	0.03		4.4	OK
26.002	91	37	118.575	-0.673	0.000	0.02		12.5	OK
28.000	TWD27	37	119.365	-0.252	0.000	0.06		8.0	OK
26.003	91A	37	118.429	-0.733	0.000	0.03		22.0	OK
26.004	92	37	118.343	-0.721	0.000	0.04		25.0	OK
26.005	93	37	118.275	-0.728	0.000	0.03		24.8	OK
29.000	TWD29	37	119.388	-0.177	0.000	0.10		3.7	OK
29.001	TWD30	37	119.220	-0.238	0.000	0.09		6.0	OK
29.002	TWD31	37	119.089	-0.259	0.000	0.05		8.1	OK
26.006	94	37	118.152	-0.714	0.000	0.04		33.1	OK
26.007	95	37	118.042	-0.713	0.000	0.04		33.9	OK
30.000	201	37	119.190	-0.251	0.000	0.06		5.3	OK
30.001	202	37	118.952	-0.238	0.000	0.10		7.2	OK
30.002	203	37	118.883	-0.218	0.000	0.17		12.5	OK
30.003	204	37	118.673	-0.310	0.000	0.07		14.7	OK
30.004	117	37	118.393	-0.278	0.000	0.15		15.5	OK
26.008	95A	37	117.924	-0.687	0.000	0.06		51.9	OK
26.009	96	38	117.733	-0.700	0.000	0.06		52.5	OK
26.010	97	38	117.327	-0.711	0.000	0.05		52.6	OK
31.000	121	37	116.964	-0.656	0.000	0.09		34.0	OK
32.000	TWD4	37	120.066	-0.195	0.000	0.04		2.1	OK
32.001	TWD5	37	119.866	-0.183	0.000	0.08		4.7	OK
33.000	TWD16	37	119.480	-0.231	0.000	0.12		7.8	OK
32.002	TWD6	37	119.301	-0.287	0.000	0.12		13.3	OK
34.000	TWD17	37	119.516	-0.191	0.000	0.06		2.9	OK
35.000	TWD18	37	119.445	-0.193	0.000	0.05		2.1	OK
32.003	TWD7	37	119.151	-0.289	0.000	0.12		19.5	OK
32.004	TWD8	37	118.636	-0.347	0.000	0.12		24.0	OK
32.005	TWD9	37	118.518	-0.333	0.000	0.15		25.6	OK
32.006	TWD10	37	118.469	-0.332	0.000	0.15		25.8	OK
36.000	TWD19	37	119.546	-0.175	0.000	0.11		7.7	OK
32.007	TWD11	37	117.316	-0.405	0.000	0.23		34.4	OK
37.000	TWD20	37	119.303	-0.183	0.000	0.08		2.9	OK
37.001	TWD21	37	119.031	-0.240	0.000	0.09		5.8	OK
37.002	TWD22	37	118.836	-0.230	0.000	0.12		8.2	OK
37.003	TWD23	37	118.565	-0.295	0.000	0.10		10.7	OK
37.004	TWD24	37	118.471	-0.315	0.000	0.06		12.5	OK
37.005	TWD25	37	117.984	-0.314	0.000	0.06		14.1	OK
32.008	TWD12	38	117.203	-0.497	0.000	0.15		50.9	OK
38.000	TWD26	37	119.253	-0.197	0.000	0.04		3.8	OK
32.009	TWD13	38	117.077	-0.538	0.000	0.13		56.3	OK
32.010	TWD14	38	117.015	-0.532	0.000	0.14		58.4	OK
32.011	TWD15	38	116.967	-0.528	0.000	0.19		60.8	OK
26.011	98	38	116.714	-0.874	0.000	0.07		144.7	OK
26.012	99	38	116.178	-0.842	0.000	0.09		144.7	OK
26.013	100	38	115.982	-0.747	0.000	0.18		143.7	OK

M-EC		Page 83
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 240 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	40	113.350	0.218	0.000	1.29		334.7	SURCHARGED
1.025	24	40	113.003	0.077	0.000	1.30		331.3	SURCHARGED
1.026	25	40	112.607	-0.182	0.000	0.52		332.4	OK
39.000	79	37	121.657	-0.516	0.000	0.00		1.6	OK
39.001	80	37	121.258	-0.501	0.000	0.01		4.5	OK
39.002	81	37	120.684	-0.643	0.000	0.01		5.6	OK
40.000	130	38	121.010	-0.191	0.000	0.05		1.8	OK
41.000	BAR1	37	121.685	-0.120	0.000	0.09		2.6	OK
41.001	131	37	120.852	-0.322	0.000	0.05		4.7	OK
39.003	81A	37	120.527	-0.607	0.000	0.02		12.9	OK
42.000	133	38	120.672	-0.274	0.000	0.02		1.0	OK
39.004	82	37	120.241	-0.664	0.000	0.03		16.3	OK
39.005	83	37	120.165	-0.670	0.000	0.03		16.2	OK
43.000	BAR2	37	121.512	-0.117	0.000	0.11		3.4	OK
43.001	136	37	120.384	-0.308	0.000	0.07		5.5	OK
39.006	83A	37	120.015	-0.655	0.000	0.04		23.2	OK
44.000	206	37	120.468	-0.389	0.000	0.03		3.5	OK
44.001	207	38	120.439	-0.380	0.000	0.04		4.4	OK
44.002	208	38	120.413	-0.363	0.000	0.06		7.5	OK
44.003	209	38	120.371	-0.333	0.000	0.08		7.5	OK
45.000	210	37	120.891	-0.194	0.000	0.05		2.1	OK
45.001	211	37	120.688	-0.254	0.000	0.06		3.7	OK
45.002	212	37	120.436	-0.320	0.000	0.05		5.6	OK
44.004	213	38	120.362	-0.320	0.000	0.16		16.7	OK
44.005	214	38	120.322	-0.323	0.000	0.13		17.6	OK
44.006	215	38	120.273	-0.308	0.000	0.22		20.6	OK
44.007	138	38	120.227	-0.330	0.000	0.16		20.6	OK
39.007	84	38	119.859	-0.666	0.000	0.08		47.5	OK
46.000	BAR4	37	121.537	-0.172	0.000	0.13		4.8	OK
46.001	BAR5	37	121.329	-0.159	0.000	0.19		6.7	OK
47.000	BAR6	37	122.035	-0.116	0.000	0.11		1.9	OK
47.001	BAR7	37	121.698	-0.173	0.000	0.12		4.4	OK
47.002	BAR8	37	121.551	-0.176	0.000	0.10		6.1	OK
46.002	BAR9	37	121.177	-0.202	0.000	0.23		14.2	OK
46.003	BAR10	37	121.067	-0.234	0.000	0.11		17.9	OK
46.004	140	37	120.161	-0.334	0.000	0.15		17.9	OK
39.008	85	38	119.805	-0.663	0.000	0.08		65.0	OK
39.009	86	38	119.670	-0.664	0.000	0.08		68.2	OK
48.000	BAR3	37	120.824	-0.124	0.000	0.07		2.3	OK
48.001	143	37	119.783	-0.391	0.000	0.04		4.8	OK
49.000	216	37	120.409	-0.261	0.000	0.04		7.2	OK
49.001	144	37	119.814	-0.381	0.000	0.06		7.6	OK
39.010	87	38	119.426	-0.726	0.000	0.08		79.8	OK
39.011	88	38	119.295	-0.712	0.000	0.10		92.9	OK
39.012	103	38	119.145	-0.706	0.000	0.10		100.5	OK
50.000	BAR11	37	121.332	-0.113	0.000	0.14		2.3	OK
50.001	BAR12	37	120.963	-0.175	0.000	0.11		5.7	OK
51.000	BAR13	37	120.770	-0.198	0.000	0.03		0.9	OK
50.002	BAR14	37	120.751	-0.168	0.000	0.15		7.9	OK

M-EC		Page 84
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	37	120.837	-0.114	0.000	0.13		2.2	OK
52.001	BAR16	37	120.546	-0.180	0.000	0.09		4.0	OK
50.003	BAR17	37	120.410	-0.208	0.000	0.21		12.7	OK
50.004	BAR18	37	120.337	-0.204	0.000	0.22		14.0	OK
50.005	BAR19	37	120.210	-0.239	0.000	0.09		15.8	OK
50.006	149	37	119.368	-0.357	0.000	0.09		15.7	OK
53.000	TWD1	37	120.418	-0.196	0.000	0.04		1.6	OK
54.000	TWD3	37	120.670	-0.212	0.000	0.01		1.0	OK
53.001	TWD2	37	120.055	-0.191	0.000	0.06		5.0	OK
39.013	104	38	118.920	-0.750	0.000	0.18		121.0	OK
39.014	104A	39	118.821	-0.814	0.000	0.11		121.3	OK
55.000	BAR20	37	121.385	-0.108	0.000	0.17		3.0	OK
55.001	BAR21	37	120.876	-0.177	0.000	0.10		5.6	OK
56.000	BAR22	37	120.435	-0.170	0.000	0.13		4.9	OK
56.001	BAR23	37	120.311	-0.158	0.000	0.19		6.3	OK
55.002	BAR24	37	120.192	-0.222	0.000	0.15		12.3	OK
55.003	BAR25	37	119.911	-0.283	0.000	0.14		14.5	OK
55.004	BAR26	37	119.798	-0.318	0.000	0.06		17.3	OK
39.015	105	39	118.649	-0.825	0.000	0.10		136.5	OK
39.016	106	39	118.460	-1.687	0.000	0.02		135.9	OK
39.017	107	39	115.802	-0.745	0.000	0.07		135.5	OK
1.027	26	40	112.124	-0.784	0.000	0.12		452.9	OK
1.028	27	40	109.315	-0.432	0.000	0.22		453.5	OK
1.029	28	40	106.372	-0.819	0.000	0.10		452.1	OK
1.030	29	40	97.413	-1.064	0.000	0.08		451.1	OK
1.031	30	40	92.848	-0.534	0.000	0.22		450.0	OK
1.032	31	41	91.692	-0.558	0.000	0.28		440.5	OK
1.033	32	41	91.216	-0.907	0.000	0.14		436.7	OK
1.034	33	45	90.265	-0.008	0.000	0.98		240.2	OK*
57.000	108	43	90.876	-1.010	0.000	0.11		175.2	OK
57.001	109	45	90.710	-1.176	0.000	0.08		161.7	OK
57.002	110	45	90.486	-1.400	0.000	0.06		145.0	OK
1.035	109	40	90.169	0.303	0.000	0.26		61.7	SURCHARGED*
1.036	34	39	86.650	0.000	0.000	0.68		56.1	SURCHARGED*

M-EC		Page 85
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	43	116.591	-0.264	0.000	0.04	2.8	OK
1.001	2	43	116.448	-0.261	0.000	0.04	3.6	OK
1.002	3	43	116.155	-0.333	0.000	0.03	3.6	OK
1.003	4	43	116.031	-0.316	0.000	0.06	10.6	OK
2.000	5	43	118.410	-0.265	0.000	0.03	3.6	OK
2.001	6	43	118.215	-0.246	0.000	0.07	7.7	OK
2.002	6	43	117.963	-0.250	0.000	0.07	8.8	OK
2.003	8	43	117.089	-0.259	0.000	0.05	11.1	OK
3.000	9.1	43	118.247	-0.178	0.000	0.10	5.1	OK
3.001	9	43	116.894	-0.251	0.000	0.06	5.1	OK
3.002	10	43	116.669	-0.314	0.000	0.06	6.7	OK
3.003	11	43	116.512	-0.370	0.000	0.07	12.9	OK
4.000	12	43	117.090	-0.196	0.000	0.04	4.2	OK
3.004	13	43	116.313	-0.447	0.000	0.05	17.0	OK
3.005	14	43	116.136	-0.417	0.000	0.09	23.3	OK
3.006	15	43	115.995	-0.470	0.000	0.11	23.9	OK
2.004	16	43	115.970	-0.473	0.000	0.10	34.9	OK
2.005	17	43	115.877	-0.476	0.000	0.09	39.7	OK
5.000	18	43	116.683	-0.204	0.000	0.02	2.3	OK
2.006	19	43	115.709	-0.470	0.000	0.11	43.7	OK
2.007	20	43	115.542	-0.465	0.000	0.11	45.9	OK
1.004	21	43	115.410	-0.438	0.000	0.16	56.4	OK

M-EC		Page 86
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	43	115.198	-0.589	0.000	0.10		63.9	OK
6.000	23	43	116.746	-0.184	0.000	0.08		3.4	OK
6.001	24	43	116.514	-0.179	0.000	0.09		3.4	OK
6.002	25	43	116.378	-0.247	0.000	0.07		5.5	OK
6.003	26	43	116.084	-0.231	0.000	0.12		7.5	OK
6.004	27	43	115.955	-0.301	0.000	0.09		10.8	OK
6.005	28	43	115.660	-0.323	0.000	0.05		10.8	OK
1.006	29	43	115.036	-0.594	0.000	0.10		80.2	OK
7.000	30	43	118.070	-0.190	0.000	0.06		2.2	OK
7.001	31	43	117.900	-0.195	0.000	0.04		5.0	OK
1.007	8	43	114.760	-0.581	0.000	0.11		85.7	OK
8.000	60	43	116.660	-0.196	0.000	0.04		1.5	OK
8.001	61	43	116.407	-0.277	0.000	0.02		1.7	OK
8.002	35	43	116.142	-0.286	0.000	0.01		2.5	OK
1.008	10	43	114.510	-0.569	0.000	0.26		87.5	OK
9.000	62	43	119.050	-0.250	0.000	0.07		5.5	OK
10.000	40	43	118.772	-0.196	0.000	0.26		16.2	OK
9.001	63	43	118.698	-0.281	0.000	0.14		23.9	OK
9.002	64	43	118.205	-0.313	0.000	0.07		30.3	OK
9.003	148	43	114.920	-0.346	0.000	0.12		31.1	OK
1.009	11	43	114.477	-0.583	0.000	0.16		119.5	OK
1.010	12	43	114.432	-0.544	0.000	0.33		121.6	OK
1.011	13	43	114.380	-0.574	0.000	0.28		123.2	OK
1.012	14	43	114.211	-0.710	0.000	0.13		124.1	OK
1.013	15	43	114.190	-0.680	0.000	0.27		124.5	OK
1.014	16	44	114.055	-0.792	0.000	0.14		124.3	OK
11.000	TWC16	43	117.655	-0.186	0.000	0.07		6.8	OK
11.001	TWC17	43	115.469	-0.191	0.000	0.05		6.8	OK
1.015	17	44	113.979	-0.891	0.000	0.09		129.4	OK
1.016	18	44	113.922	-0.845	0.000	0.09		125.1	OK
12.000	TWC1	43	117.612	-0.189	0.000	0.06		2.3	OK
12.001	TWC2	43	117.455	-0.181	0.000	0.09		3.3	OK
12.002	TWC3	43	117.211	-0.159	0.000	0.19		6.5	OK
12.003	TWC4	43	117.140	-0.157	0.000	0.20		6.5	OK
13.000	TWC5	43	118.113	-0.177	0.000	0.10		3.9	OK
13.001	TWC6	43	117.909	-0.159	0.000	0.19		7.0	OK
13.002	TWC7	43	117.726	-0.172	0.000	0.12		8.9	OK
12.004	TWC8	43	116.977	-0.265	0.000	0.18		17.1	OK
12.005	TWC9	43	116.910	-0.258	0.000	0.21		18.7	OK
12.006	TWC10	43	116.831	-0.289	0.000	0.12		19.3	OK
1.017	TWC11	44	113.886	-0.781	0.000	0.10		139.2	OK
1.018	19	44	113.867	-0.726	0.000	0.07		138.0	OK
14.000	TWC12	43	117.212	-0.197	0.000	0.04		1.4	OK
14.001	TWC13	43	117.049	-0.203	0.000	0.02		2.6	OK
14.002	TWC14	43	116.091	-0.188	0.000	0.07		5.1	OK
1.019	TWC15	44	113.846	-0.482	0.000	0.11		141.2	OK
15.000	65	43	117.125	-0.244	0.000	0.08		5.5	OK
16.000	136	43	118.014	-0.200	0.000	0.03		1.8	OK
16.001	137	43	117.709	-0.198	0.000	0.03		1.9	OK

M-EC		Page 87
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	43	117.451	-0.268	0.000	0.03		3.4	OK
15.001	66	43	116.890	-0.296	0.000	0.10		11.9	OK
15.002	67	43	116.754	-0.290	0.000	0.12		13.4	OK
17.000	9	43	117.292	-0.292	0.000	0.01		0.5	OK
17.001	75	43	117.136	-0.261	0.000	0.04		3.2	OK
17.002	76	43	116.732	-0.488	0.000	0.01		6.0	OK
15.003	68	43	116.526	-0.419	0.000	0.09		21.9	OK
15.004	69	43	116.338	-0.479	0.000	0.08		26.4	OK
15.005	70	43	116.259	-0.469	0.000	0.09		26.3	OK
15.006	71	43	116.216	-0.458	0.000	0.10		30.5	OK
18.000	147	43	116.771	-0.200	0.000	0.03		1.1	OK
18.001	112	43	116.589	-0.258	0.000	0.05		2.6	OK
18.002	113	43	116.409	-0.394	0.000	0.03		3.3	OK
19.000	115	43	117.285	-0.209	0.000	0.02		0.7	OK
19.001	116	43	117.029	-0.201	0.000	0.03		2.1	OK
18.003	77	43	116.363	-0.387	0.000	0.05		6.1	OK
20.000	134	43	117.232	-0.200	0.000	0.03		2.4	OK
18.004	135	43	116.278	-0.422	0.000	0.06		10.5	OK
18.005	78	43	116.221	-0.424	0.000	0.07		11.9	OK
15.007	72	43	116.173	-0.425	0.000	0.15		43.8	OK
15.008	73	43	116.073	-0.381	0.000	0.22		46.1	OK
15.009	74	43	116.029	-0.382	0.000	0.28		46.2	OK
15.010	98	43	115.958	-0.427	0.000	0.17		46.3	OK
15.011	99	43	115.844	-0.439	0.000	0.16		45.8	OK
15.012	101	43	115.663	-0.436	0.000	0.17		45.8	OK
21.000	142	43	117.100	-0.189	0.000	0.06		2.8	OK
21.001	143	43	116.681	-0.186	0.000	0.07		4.2	OK
22.000	118	43	117.087	-0.219	0.000	0.01		0.2	OK
22.001	119	43	117.024	-0.196	0.000	0.04		1.3	OK
22.002	120	43	116.972	-0.189	0.000	0.06		3.9	OK
23.000	129	43	116.610	-0.267	0.000	0.03		2.2	OK
23.001	130	43	116.474	-0.268	0.000	0.03		2.7	OK
22.003	121	43	116.266	-0.228	0.000	0.13		8.6	OK
24.000	131	43	116.899	-0.180	0.000	0.09		3.8	OK
24.001	132	43	116.622	-0.160	0.000	0.18		5.0	OK
24.002	133	43	116.481	-0.259	0.000	0.05		5.8	OK
22.004	122	43	116.062	-0.362	0.000	0.09		15.5	OK
22.005	123	43	115.987	-0.341	0.000	0.12		17.6	OK
25.000	139	43	116.708	-0.178	0.000	0.10		2.6	OK
25.001	140	43	116.595	-0.179	0.000	0.10		5.9	OK
22.006	124	43	115.934	-0.328	0.000	0.16		24.6	OK
22.007	125	43	115.728	-0.479	0.000	0.09		24.6	OK
22.008	126	43	115.532	-0.628	0.000	0.05		26.2	OK
22.009	127	43	115.476	-0.587	0.000	0.11		26.1	OK
21.002	149	43	115.359	-0.656	0.000	0.04		30.2	OK
1.020	20	44	113.815	0.261	0.000	3.19		211.7	SURCHARGED
1.021	108	44	113.473	-0.072	0.000	0.84		210.6	OK
1.022	21	44	113.385	-0.024	0.000	0.81		206.5	OK
1.023	22	44	113.259	0.038	0.000	0.86		209.3	SURCHARGED

M-EC		Page 88
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	43	119.286	-0.652	0.000	0.01		5.1	OK
26.001	90	43	118.958	-0.649	0.000	0.01		6.1	OK
27.000	200	43	119.543	-0.273	0.000	0.02		2.9	OK
27.001	109	43	118.808	-0.471	0.000	0.02		3.3	OK
26.002	91	43	118.558	-0.690	0.000	0.02		9.4	OK
28.000	TWD27	43	119.358	-0.259	0.000	0.05		6.0	OK
26.003	91A	43	118.420	-0.742	0.000	0.02		16.5	OK
26.004	92	43	118.331	-0.733	0.000	0.03		18.8	OK
26.005	93	43	118.265	-0.738	0.000	0.02		18.8	OK
29.000	TWD29	43	119.381	-0.184	0.000	0.08		2.7	OK
29.001	TWD30	43	119.210	-0.248	0.000	0.07		4.5	OK
29.002	TWD31	43	119.084	-0.264	0.000	0.03		6.1	OK
26.006	94	43	118.138	-0.728	0.000	0.03		25.1	OK
26.007	95	43	118.028	-0.727	0.000	0.03		25.8	OK
30.000	201	43	119.183	-0.258	0.000	0.05		4.0	OK
30.001	202	43	118.943	-0.247	0.000	0.07		5.4	OK
30.002	203	43	118.871	-0.230	0.000	0.12		9.4	OK
30.003	204	43	118.663	-0.320	0.000	0.05		11.0	OK
30.004	117	43	118.379	-0.292	0.000	0.11		11.7	OK
26.008	95A	43	117.904	-0.707	0.000	0.05		39.7	OK
26.009	96	43	117.716	-0.717	0.000	0.04		39.4	OK
26.010	97	43	117.313	-0.725	0.000	0.04		39.2	OK
31.000	121	43	116.938	-0.682	0.000	0.07		25.5	OK
32.000	TWD4	43	120.062	-0.199	0.000	0.03		1.6	OK
32.001	TWD5	43	119.859	-0.190	0.000	0.06		3.5	OK
33.000	TWD16	43	119.471	-0.240	0.000	0.09		5.8	OK
32.002	TWD6	43	119.290	-0.298	0.000	0.09		10.0	OK
34.000	TWD17	43	119.511	-0.196	0.000	0.04		2.2	OK
35.000	TWD18	43	119.441	-0.197	0.000	0.04		1.5	OK
32.003	TWD7	43	119.140	-0.300	0.000	0.09		14.7	OK
32.004	TWD8	43	118.623	-0.360	0.000	0.09		18.1	OK
32.005	TWD9	43	118.502	-0.349	0.000	0.11		19.4	OK
32.006	TWD10	43	118.452	-0.349	0.000	0.12		19.6	OK
36.000	TWD19	43	119.540	-0.181	0.000	0.08		5.8	OK
32.007	TWD11	43	117.288	-0.433	0.000	0.17		26.1	OK
37.000	TWD20	43	119.296	-0.190	0.000	0.06		2.2	OK
37.001	TWD21	43	119.021	-0.250	0.000	0.07		4.4	OK
37.002	TWD22	43	118.827	-0.239	0.000	0.09		6.2	OK
37.003	TWD23	43	118.554	-0.306	0.000	0.08		8.1	OK
37.004	TWD24	43	118.462	-0.324	0.000	0.05		9.5	OK
37.005	TWD25	43	117.975	-0.323	0.000	0.05		10.8	OK
32.008	TWD12	43	117.177	-0.523	0.000	0.11		38.9	OK
38.000	TWD26	43	119.250	-0.200	0.000	0.03		2.9	OK
32.009	TWD13	43	117.047	-0.568	0.000	0.10		42.8	OK
32.010	TWD14	43	116.986	-0.561	0.000	0.11		44.1	OK
32.011	TWD15	43	116.937	-0.558	0.000	0.15		45.7	OK
26.011	98	43	116.690	-0.898	0.000	0.05		110.1	OK
26.012	99	43	116.147	-0.873	0.000	0.07		109.7	OK
26.013	100	43	115.942	-0.787	0.000	0.14		110.1	OK



M-EC		Page 89
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 360 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	44	113.195	0.063	0.000	1.11		287.0	SURCHARGED
1.025	24	44	112.943	0.017	0.000	1.12		286.7	SURCHARGED
1.026	25	44	112.590	-0.199	0.000	0.45		286.7	OK
39.000	79	43	121.655	-0.518	0.000	0.00		1.2	OK
39.001	80	43	121.252	-0.507	0.000	0.01		3.4	OK
39.002	81	43	120.676	-0.651	0.000	0.01		4.2	OK
40.000	130	43	121.006	-0.195	0.000	0.04		1.4	OK
41.000	BAR1	43	121.680	-0.125	0.000	0.07		2.0	OK
41.001	131	43	120.845	-0.329	0.000	0.04		3.5	OK
39.003	81A	43	120.510	-0.624	0.000	0.02		9.7	OK
42.000	133	43	120.666	-0.280	0.000	0.01		0.8	OK
39.004	82	43	120.232	-0.673	0.000	0.02		12.3	OK
39.005	83	43	120.154	-0.681	0.000	0.02		12.3	OK
43.000	BAR2	43	121.507	-0.122	0.000	0.08		2.5	OK
43.001	136	43	120.374	-0.318	0.000	0.06		4.1	OK
39.006	83A	43	120.004	-0.666	0.000	0.03		17.6	OK
44.000	206	43	120.459	-0.398	0.000	0.03		2.7	OK
44.001	207	43	120.427	-0.392	0.000	0.03		3.3	OK
44.002	208	43	120.398	-0.378	0.000	0.04		5.7	OK
44.003	209	43	120.353	-0.351	0.000	0.06		5.7	OK
45.000	210	43	120.887	-0.198	0.000	0.03		1.5	OK
45.001	211	43	120.681	-0.261	0.000	0.04		2.8	OK
45.002	212	43	120.429	-0.327	0.000	0.04		4.2	OK
44.004	213	43	120.344	-0.338	0.000	0.12		12.9	OK
44.005	214	43	120.304	-0.341	0.000	0.10		13.5	OK
44.006	215	43	120.254	-0.327	0.000	0.17		15.7	OK
44.007	138	43	120.212	-0.345	0.000	0.12		15.6	OK
39.007	84	43	119.834	-0.691	0.000	0.06		36.3	OK
46.000	BAR4	43	121.530	-0.179	0.000	0.10		3.6	OK
46.001	BAR5	43	121.319	-0.169	0.000	0.14		5.1	OK
47.000	BAR6	43	122.030	-0.121	0.000	0.09		1.5	OK
47.001	BAR7	43	121.691	-0.180	0.000	0.09		3.3	OK
47.002	BAR8	43	121.544	-0.183	0.000	0.08		4.6	OK
46.002	BAR9	43	121.163	-0.216	0.000	0.17		10.7	OK
46.003	BAR10	43	121.059	-0.242	0.000	0.08		13.5	OK
46.004	140	43	120.145	-0.350	0.000	0.11		13.5	OK
39.008	85	43	119.780	-0.688	0.000	0.06		49.6	OK
39.009	86	43	119.645	-0.689	0.000	0.06		51.4	OK
48.000	BAR3	43	120.820	-0.128	0.000	0.05		1.7	OK
48.001	143	43	119.776	-0.398	0.000	0.03		3.6	OK
49.000	216	43	120.404	-0.266	0.000	0.03		5.3	OK
49.001	144	43	119.804	-0.391	0.000	0.04		5.7	OK
39.010	87	43	119.400	-0.752	0.000	0.06		60.5	OK
39.011	88	43	119.269	-0.738	0.000	0.07		70.5	OK
39.012	103	43	119.121	-0.730	0.000	0.08		75.9	OK
50.000	BAR11	43	121.327	-0.118	0.000	0.10		1.8	OK
50.001	BAR12	43	120.956	-0.182	0.000	0.08		4.2	OK
51.000	BAR13	43	120.767	-0.201	0.000	0.02		0.7	OK
50.002	BAR14	43	120.744	-0.175	0.000	0.11		5.9	OK

M-EC		Page 90
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 360 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	43	120.832	-0.119	0.000	0.10		1.6	OK
52.001	BAR16	43	120.539	-0.187	0.000	0.07		3.0	OK
50.003	BAR17	43	120.397	-0.221	0.000	0.16		9.5	OK
50.004	BAR18	43	120.323	-0.218	0.000	0.17		10.6	OK
50.005	BAR19	43	120.200	-0.249	0.000	0.07		11.9	OK
50.006	149	43	119.353	-0.372	0.000	0.07		11.9	OK
53.000	TWD1	43	120.415	-0.199	0.000	0.03		1.2	OK
54.000	TWD3	43	120.666	-0.216	0.000	0.01		0.8	OK
53.001	TWD2	43	120.050	-0.196	0.000	0.04		3.7	OK
39.013	104	43	118.879	-0.791	0.000	0.14		91.2	OK
39.014	104A	43	118.795	-0.840	0.000	0.08		92.1	OK
55.000	BAR20	43	121.379	-0.114	0.000	0.13		2.3	OK
55.001	BAR21	43	120.869	-0.184	0.000	0.08		4.2	OK
56.000	BAR22	43	120.427	-0.178	0.000	0.10		3.7	OK
56.001	BAR23	43	120.301	-0.168	0.000	0.14		4.7	OK
55.002	BAR24	43	120.181	-0.233	0.000	0.11		9.3	OK
55.003	BAR25	43	119.899	-0.295	0.000	0.10		10.9	OK
55.004	BAR26	43	119.790	-0.326	0.000	0.04		13.1	OK
39.015	105	43	118.619	-0.855	0.000	0.08		105.1	OK
39.016	106	43	118.424	-1.723	0.000	0.01		104.3	OK
39.017	107	43	115.768	-0.779	0.000	0.06		104.1	OK
1.027	26	44	112.084	-0.824	0.000	0.10		372.8	OK
1.028	27	44	109.280	-0.467	0.000	0.18		373.8	OK
1.029	28	44	106.336	-0.855	0.000	0.08		374.9	OK
1.030	29	44	97.371	-1.106	0.000	0.06		374.6	OK
1.031	30	44	92.804	-0.578	0.000	0.18		372.4	OK
1.032	31	44	91.631	-0.619	0.000	0.24		372.3	OK
1.033	32	44	91.169	-0.954	0.000	0.12		371.0	OK
1.034	33	42	90.287	0.014	0.000	0.91		222.6	SURCHARGED*
57.000	108	47	90.809	-1.077	0.000	0.08		133.4	OK
57.001	109	47	90.646	-1.240	0.000	0.07		128.2	OK
57.002	110	47	90.435	-1.451	0.000	0.05		117.9	OK
1.035	109	38	90.182	0.316	0.000	0.23		56.4	SURCHARGED*
1.036	34	38	86.650	0.000	0.000	0.68		56.2	SURCHARGED*

M-EC		Page 91
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	45	116.588	-0.267	0.000	0.03	2.3	OK
1.001	2	45	116.445	-0.264	0.000	0.03	2.9	OK
1.002	3	45	116.152	-0.336	0.000	0.02	2.9	OK
1.003	4	45	116.025	-0.322	0.000	0.05	8.6	OK
2.000	5	45	118.407	-0.268	0.000	0.03	2.9	OK
2.001	6	45	118.209	-0.252	0.000	0.06	6.3	OK
2.002	6	45	117.957	-0.256	0.000	0.05	7.2	OK
2.003	8	45	117.085	-0.263	0.000	0.04	9.0	OK
3.000	9.1	45	118.242	-0.183	0.000	0.08	4.1	OK
3.001	9	45	116.888	-0.257	0.000	0.05	4.1	OK
3.002	10	45	116.662	-0.321	0.000	0.05	5.5	OK
3.003	11	45	116.503	-0.379	0.000	0.06	10.4	OK
4.000	12	45	117.088	-0.198	0.000	0.03	3.4	OK
3.004	13	45	116.305	-0.455	0.000	0.04	13.8	OK
3.005	14	45	116.124	-0.429	0.000	0.08	18.9	OK
3.006	15	45	115.983	-0.482	0.000	0.09	19.4	OK
2.004	16	45	115.957	-0.486	0.000	0.08	28.4	OK
2.005	17	45	115.863	-0.490	0.000	0.08	32.3	OK
5.000	18	45	116.679	-0.208	0.000	0.02	1.9	OK
2.006	19	45	115.697	-0.482	0.000	0.09	35.6	OK
2.007	20	45	115.530	-0.477	0.000	0.09	37.5	OK
1.004	21	45	115.393	-0.455	0.000	0.13	46.0	OK

M-EC		Page 92
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
1.005	22	45	115.183	-0.604	0.000	0.08		52.3	OK
6.000	23	45	116.741	-0.189	0.000	0.06		2.7	OK
6.001	24	45	116.508	-0.185	0.000	0.07		2.7	OK
6.002	25	45	116.372	-0.253	0.000	0.06		4.5	OK
6.003	26	45	116.078	-0.237	0.000	0.10		6.1	OK
6.004	27	45	115.946	-0.310	0.000	0.07		8.8	OK
6.005	28	45	115.655	-0.328	0.000	0.04		8.8	OK
1.006	29	45	115.019	-0.611	0.000	0.08		65.5	OK
7.000	30	45	118.066	-0.194	0.000	0.05		1.8	OK
7.001	31	45	117.897	-0.198	0.000	0.03		4.1	OK
1.007	8	45	114.745	-0.596	0.000	0.09		70.2	OK
8.000	60	45	116.657	-0.199	0.000	0.03		1.2	OK
8.001	61	45	116.403	-0.281	0.000	0.01		1.4	OK
8.002	35	45	116.140	-0.288	0.000	0.01		2.0	OK
1.008	10	45	114.474	-0.605	0.000	0.22		72.0	OK
9.000	62	45	119.045	-0.255	0.000	0.05		4.5	OK
10.000	40	45	118.762	-0.206	0.000	0.21		13.1	OK
9.001	63	45	118.688	-0.291	0.000	0.12		19.3	OK
9.002	64	45	118.198	-0.320	0.000	0.05		24.5	OK
9.003	148	45	114.910	-0.356	0.000	0.10		25.2	OK
1.009	11	45	114.441	-0.619	0.000	0.13		98.5	OK
1.010	12	45	114.393	-0.583	0.000	0.27		99.3	OK
1.011	13	45	114.347	-0.607	0.000	0.23		99.6	OK
1.012	14	45	114.176	-0.745	0.000	0.11		100.1	OK
1.013	15	45	114.154	-0.716	0.000	0.22		100.9	OK
1.014	16	45	114.028	-0.819	0.000	0.11		101.4	OK
11.000	TWC16	45	117.650	-0.191	0.000	0.06		5.5	OK
11.001	TWC17	45	115.465	-0.195	0.000	0.04		5.5	OK
1.015	17	45	113.935	-0.935	0.000	0.07		106.4	OK
1.016	18	45	113.860	-0.907	0.000	0.08		105.6	OK
12.000	TWC1	45	117.608	-0.193	0.000	0.05		1.8	OK
12.001	TWC2	45	117.450	-0.186	0.000	0.07		2.6	OK
12.002	TWC3	45	117.203	-0.167	0.000	0.15		5.3	OK
12.003	TWC4	45	117.132	-0.165	0.000	0.16		5.3	OK
13.000	TWC5	45	118.108	-0.182	0.000	0.08		3.2	OK
13.001	TWC6	45	117.901	-0.167	0.000	0.15		5.7	OK
13.002	TWC7	45	117.721	-0.177	0.000	0.10		7.2	OK
12.004	TWC8	45	116.964	-0.278	0.000	0.14		13.9	OK
12.005	TWC9	45	116.897	-0.271	0.000	0.17		15.2	OK
12.006	TWC10	45	116.823	-0.297	0.000	0.10		15.7	OK
1.017	TWC11	46	113.805	-0.862	0.000	0.08		118.6	OK
1.018	19	46	113.779	-0.814	0.000	0.06		116.8	OK
14.000	TWC12	45	117.209	-0.200	0.000	0.03		1.1	OK
14.001	TWC13	45	117.044	-0.208	0.000	0.02		2.1	OK
14.002	TWC14	45	116.087	-0.192	0.000	0.05		4.2	OK
1.019	TWC15	46	113.761	-0.567	0.000	0.10		120.8	OK
15.000	65	45	117.119	-0.250	0.000	0.07		4.5	OK
16.000	136	45	118.012	-0.202	0.000	0.02		1.4	OK
16.001	137	45	117.706	-0.201	0.000	0.03		1.5	OK

M-EC		Page 93
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	45	117.449	-0.270	0.000	0.02		2.8	OK
15.001	66	45	116.882	-0.304	0.000	0.08		9.6	OK
15.002	67	45	116.747	-0.297	0.000	0.10		10.9	OK
17.000	9	45	117.291	-0.293	0.000	0.00		0.4	OK
17.001	75	45	117.132	-0.265	0.000	0.03		2.6	OK
17.002	76	45	116.725	-0.495	0.000	0.01		4.9	OK
15.003	68	45	116.513	-0.432	0.000	0.07		17.8	OK
15.004	69	45	116.323	-0.494	0.000	0.07		21.5	OK
15.005	70	45	116.245	-0.483	0.000	0.08		21.5	OK
15.006	71	45	116.200	-0.474	0.000	0.08		24.9	OK
18.000	147	45	116.769	-0.202	0.000	0.02		0.9	OK
18.001	112	45	116.585	-0.262	0.000	0.04		2.1	OK
18.002	113	45	116.404	-0.399	0.000	0.02		2.7	OK
19.000	115	45	117.282	-0.212	0.000	0.01		0.6	OK
19.001	116	45	117.028	-0.202	0.000	0.02		1.7	OK
18.003	77	45	116.357	-0.393	0.000	0.04		4.9	OK
20.000	134	45	117.230	-0.202	0.000	0.02		1.9	OK
18.004	135	45	116.264	-0.436	0.000	0.05		8.5	OK
18.005	78	45	116.206	-0.439	0.000	0.06		9.7	OK
15.007	72	45	116.152	-0.446	0.000	0.13		36.1	OK
15.008	73	45	116.051	-0.403	0.000	0.18		37.7	OK
15.009	74	45	116.007	-0.404	0.000	0.23		37.5	OK
15.010	98	45	115.941	-0.444	0.000	0.14		37.7	OK
15.011	99	45	115.828	-0.455	0.000	0.13		37.9	OK
15.012	101	45	115.645	-0.454	0.000	0.14		37.9	OK
21.000	142	45	117.096	-0.193	0.000	0.05		2.3	OK
21.001	143	45	116.677	-0.190	0.000	0.06		3.4	OK
22.000	118	45	117.086	-0.220	0.000	0.00		0.2	OK
22.001	119	45	117.021	-0.199	0.000	0.03		1.0	OK
22.002	120	45	116.968	-0.193	0.000	0.05		3.1	OK
23.000	129	45	116.607	-0.270	0.000	0.02		1.8	OK
23.001	130	45	116.472	-0.270	0.000	0.02		2.2	OK
22.003	121	45	116.259	-0.235	0.000	0.11		7.0	OK
24.000	131	45	116.894	-0.185	0.000	0.07		3.1	OK
24.001	132	45	116.615	-0.168	0.000	0.15		4.0	OK
24.002	133	45	116.478	-0.263	0.000	0.04		4.7	OK
22.004	122	45	116.051	-0.373	0.000	0.07		12.6	OK
22.005	123	45	115.976	-0.352	0.000	0.09		14.3	OK
25.000	139	45	116.703	-0.183	0.000	0.08		2.1	OK
25.001	140	45	116.590	-0.184	0.000	0.08		4.8	OK
22.006	124	45	115.920	-0.341	0.000	0.13		20.0	OK
22.007	125	45	115.713	-0.493	0.000	0.07		20.0	OK
22.008	126	45	115.518	-0.642	0.000	0.04		21.4	OK
22.009	127	45	115.461	-0.602	0.000	0.09		21.3	OK
21.002	149	45	115.351	-0.664	0.000	0.03		24.7	OK
1.020	20	46	113.736	0.182	0.000	2.70		179.1	SURCHARGED
1.021	108	46	113.409	-0.136	0.000	0.72		180.3	OK
1.022	21	46	113.268	-0.141	0.000	0.71		179.8	OK
1.023	22	46	113.128	-0.093	0.000	0.74		179.8	OK

M-EC		Page 94
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	45	119.281	-0.657	0.000	0.01		4.2	OK
26.001	90	45	118.953	-0.654	0.000	0.01		4.9	OK
27.000	200	45	119.538	-0.278	0.000	0.02		2.4	OK
27.001	109	45	118.800	-0.479	0.000	0.02		2.7	OK
26.002	91	45	118.546	-0.702	0.000	0.01		7.6	OK
28.000	TWD27	45	119.354	-0.263	0.000	0.04		4.8	OK
26.003	91A	45	118.405	-0.757	0.000	0.02		13.4	OK
26.004	92	45	118.324	-0.740	0.000	0.02		15.2	OK
26.005	93	45	118.255	-0.748	0.000	0.02		15.2	OK
29.000	TWD29	45	119.376	-0.189	0.000	0.06		2.2	OK
29.001	TWD30	45	119.204	-0.254	0.000	0.06		3.7	OK
29.002	TWD31	45	119.081	-0.267	0.000	0.03		4.9	OK
26.006	94	45	118.130	-0.736	0.000	0.03		20.3	OK
26.007	95	45	118.020	-0.735	0.000	0.03		20.9	OK
30.000	201	45	119.179	-0.262	0.000	0.04		3.2	OK
30.001	202	45	118.937	-0.253	0.000	0.06		4.4	OK
30.002	203	45	118.864	-0.237	0.000	0.10		7.6	OK
30.003	204	45	118.658	-0.325	0.000	0.04		8.9	OK
30.004	117	45	118.372	-0.299	0.000	0.09		9.5	OK
26.008	95A	45	117.892	-0.719	0.000	0.04		32.2	OK
26.009	96	45	117.706	-0.727	0.000	0.03		32.2	OK
26.010	97	45	117.305	-0.733	0.000	0.03		32.2	OK
31.000	121	45	116.921	-0.699	0.000	0.06		20.6	OK
32.000	TWD4	45	120.060	-0.201	0.000	0.03		1.3	OK
32.001	TWD5	45	119.855	-0.194	0.000	0.05		2.8	OK
33.000	TWD16	45	119.464	-0.247	0.000	0.07		4.7	OK
32.002	TWD6	45	119.281	-0.307	0.000	0.08		8.1	OK
34.000	TWD17	45	119.509	-0.198	0.000	0.03		1.8	OK
35.000	TWD18	45	119.439	-0.199	0.000	0.03		1.2	OK
32.003	TWD7	45	119.131	-0.309	0.000	0.07		11.9	OK
32.004	TWD8	45	118.612	-0.371	0.000	0.07		14.7	OK
32.005	TWD9	45	118.493	-0.358	0.000	0.09		15.7	OK
32.006	TWD10	45	118.443	-0.358	0.000	0.09		15.9	OK
36.000	TWD19	45	119.534	-0.187	0.000	0.07		4.7	OK
32.007	TWD11	45	117.270	-0.451	0.000	0.14		21.2	OK
37.000	TWD20	45	119.292	-0.194	0.000	0.05		1.8	OK
37.001	TWD21	45	119.015	-0.256	0.000	0.05		3.6	OK
37.002	TWD22	45	118.820	-0.246	0.000	0.08		5.1	OK
37.003	TWD23	45	118.545	-0.315	0.000	0.06		6.6	OK
37.004	TWD24	45	118.457	-0.329	0.000	0.04		7.7	OK
37.005	TWD25	45	117.970	-0.328	0.000	0.04		8.8	OK
32.008	TWD12	45	117.163	-0.537	0.000	0.09		31.7	OK
38.000	TWD26	45	119.248	-0.202	0.000	0.02		2.3	OK
32.009	TWD13	45	117.029	-0.586	0.000	0.08		35.0	OK
32.010	TWD14	45	116.966	-0.581	0.000	0.09		36.3	OK
32.011	TWD15	45	116.917	-0.578	0.000	0.12		37.8	OK
26.011	98	45	116.675	-0.913	0.000	0.04		90.5	OK
26.012	99	45	116.128	-0.892	0.000	0.05		90.3	OK
26.013	100	45	115.916	-0.813	0.000	0.11		89.4	OK

M-EC		Page 95
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.024	23	47	113.069	-0.063	0.000	0.99		256.3	OK
1.025	24	47	112.870	-0.056	0.000	1.00		254.9	OK
1.026	25	47	112.578	-0.211	0.000	0.40		255.3	OK
39.000	79	45	121.653	-0.520	0.000	0.00		1.0	OK
39.001	80	45	121.248	-0.511	0.000	0.01		2.8	OK
39.002	81	45	120.672	-0.655	0.000	0.01		3.4	OK
40.000	130	45	121.003	-0.198	0.000	0.03		1.2	OK
41.000	BAR1	45	121.678	-0.127	0.000	0.05		1.6	OK
41.001	131	45	120.841	-0.333	0.000	0.03		2.8	OK
39.003	81A	45	120.501	-0.633	0.000	0.01		7.9	OK
42.000	133	45	120.662	-0.284	0.000	0.01		0.6	OK
39.004	82	45	120.222	-0.683	0.000	0.02		10.0	OK
39.005	83	45	120.141	-0.694	0.000	0.02		10.0	OK
43.000	BAR2	45	121.504	-0.125	0.000	0.07		2.1	OK
43.001	136	45	120.368	-0.324	0.000	0.05		3.3	OK
39.006	83A	45	119.998	-0.672	0.000	0.02		14.3	OK
44.000	206	45	120.455	-0.402	0.000	0.02		2.1	OK
44.001	207	45	120.421	-0.398	0.000	0.02		2.7	OK
44.002	208	45	120.389	-0.387	0.000	0.03		4.6	OK
44.003	209	45	120.343	-0.361	0.000	0.05		4.6	OK
45.000	210	45	120.885	-0.200	0.000	0.03		1.2	OK
45.001	211	45	120.678	-0.264	0.000	0.03		2.3	OK
45.002	212	45	120.424	-0.332	0.000	0.03		3.4	OK
44.004	213	45	120.332	-0.350	0.000	0.10		10.5	OK
44.005	214	45	120.293	-0.353	0.000	0.08		11.0	OK
44.006	215	45	120.240	-0.340	0.000	0.14		12.9	OK
44.007	138	45	120.202	-0.355	0.000	0.10		12.8	OK
39.007	84	45	119.819	-0.706	0.000	0.05		29.7	OK
46.000	BAR4	45	121.525	-0.184	0.000	0.08		2.9	OK
46.001	BAR5	45	121.313	-0.175	0.000	0.11		4.1	OK
47.000	BAR6	45	122.027	-0.124	0.000	0.07		1.2	OK
47.001	BAR7	45	121.686	-0.185	0.000	0.07		2.7	OK
47.002	BAR8	45	121.539	-0.188	0.000	0.06		3.7	OK
46.002	BAR9	45	121.154	-0.225	0.000	0.14		8.7	OK
46.003	BAR10	45	121.051	-0.250	0.000	0.07		11.0	OK
46.004	140	45	120.136	-0.359	0.000	0.09		11.0	OK
39.008	85	45	119.764	-0.704	0.000	0.05		40.6	OK
39.009	86	45	119.630	-0.704	0.000	0.05		42.3	OK
48.000	BAR3	45	120.818	-0.130	0.000	0.04		1.4	OK
48.001	143	45	119.772	-0.402	0.000	0.03		2.9	OK
49.000	216	45	120.402	-0.268	0.000	0.03		4.3	OK
49.001	144	45	119.799	-0.396	0.000	0.03		4.6	OK
39.010	87	45	119.383	-0.769	0.000	0.05		49.7	OK
39.011	88	45	119.250	-0.757	0.000	0.06		58.1	OK
39.012	103	45	119.101	-0.750	0.000	0.07		62.8	OK
50.000	BAR11	45	121.324	-0.121	0.000	0.08		1.4	OK
50.001	BAR12	45	120.951	-0.187	0.000	0.07		3.4	OK
51.000	BAR13	45	120.764	-0.204	0.000	0.02		0.6	OK
50.002	BAR14	45	120.739	-0.180	0.000	0.09		4.8	OK

M-EC		Page 96
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 480 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	45	120.829	-0.122	0.000	0.08		1.3	OK
52.001	BAR16	45	120.535	-0.191	0.000	0.05		2.4	OK
50.003	BAR17	45	120.388	-0.230	0.000	0.13		7.7	OK
50.004	BAR18	45	120.314	-0.227	0.000	0.14		8.6	OK
50.005	BAR19	45	120.194	-0.255	0.000	0.06		9.7	OK
50.006	149	45	119.344	-0.381	0.000	0.06		9.7	OK
53.000	TWD1	45	120.413	-0.201	0.000	0.03		1.0	OK
54.000	TWD3	45	120.665	-0.217	0.000	0.01		0.6	OK
53.001	TWD2	45	120.048	-0.198	0.000	0.03		3.0	OK
39.013	104	45	118.854	-0.816	0.000	0.11		75.1	OK
39.014	104A	45	118.770	-0.865	0.000	0.07		75.1	OK
55.000	BAR20	45	121.375	-0.118	0.000	0.10		1.8	OK
55.001	BAR21	45	120.864	-0.189	0.000	0.06		3.4	OK
56.000	BAR22	45	120.423	-0.182	0.000	0.08		3.0	OK
56.001	BAR23	45	120.295	-0.174	0.000	0.12		3.8	OK
55.002	BAR24	45	120.175	-0.239	0.000	0.09		7.5	OK
55.003	BAR25	45	119.891	-0.303	0.000	0.08		8.9	OK
55.004	BAR26	45	119.786	-0.330	0.000	0.03		10.6	OK
39.015	105	45	118.597	-0.877	0.000	0.06		85.0	OK
39.016	106	45	118.404	-1.743	0.000	0.01		85.9	OK
39.017	107	45	115.746	-0.801	0.000	0.05		86.2	OK
1.027	26	47	112.062	-0.846	0.000	0.09		334.0	OK
1.028	27	47	109.259	-0.488	0.000	0.16		333.5	OK
1.029	28	47	106.313	-0.878	0.000	0.07		331.8	OK
1.030	29	46	97.350	-1.127	0.000	0.06		333.2	OK
1.031	30	46	92.780	-0.602	0.000	0.16		333.3	OK
1.032	31	46	91.597	-0.653	0.000	0.21		330.5	OK
1.033	32	47	91.138	-0.985	0.000	0.11		330.5	OK
1.034	33	41	90.292	0.019	0.000	0.85		207.2	SURCHARGED*
57.000	108	48	90.760	-1.126	0.000	0.07		110.1	OK
57.001	109	48	90.602	-1.284	0.000	0.06		106.9	OK
57.002	110	48	90.389	-1.497	0.000	0.04		100.2	OK
1.035	109	37	90.191	0.325	0.000	0.23		55.6	SURCHARGED*
1.036	34	34	86.650	0.000	0.000	0.67		55.7	SURCHARGED*



M-EC		Page 97
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	51	116.579	-0.276	0.000	0.02	1.4	OK
1.001	2	51	116.438	-0.271	0.000	0.02	1.8	OK
1.002	3	51	116.138	-0.350	0.000	0.01	1.8	OK
1.003	4	51	116.014	-0.333	0.000	0.03	5.1	OK
2.000	5	51	118.397	-0.278	0.000	0.02	1.8	OK
2.001	6	51	118.198	-0.263	0.000	0.04	3.8	OK
2.002	6	51	117.948	-0.265	0.000	0.03	4.3	OK
2.003	8	51	117.079	-0.269	0.000	0.02	5.4	OK
3.000	9.1	51	118.231	-0.194	0.000	0.05	2.5	OK
3.001	9	51	116.879	-0.266	0.000	0.03	2.5	OK
3.002	10	51	116.651	-0.332	0.000	0.03	3.3	OK
3.003	11	51	116.487	-0.395	0.000	0.04	6.3	OK
4.000	12	51	117.082	-0.204	0.000	0.02	2.0	OK
3.004	13	51	116.292	-0.468	0.000	0.03	8.3	OK
3.005	14	51	116.100	-0.453	0.000	0.05	11.3	OK
3.006	15	51	115.952	-0.513	0.000	0.05	11.6	OK
2.004	16	51	115.928	-0.515	0.000	0.05	17.0	OK
2.005	17	51	115.835	-0.518	0.000	0.05	19.4	OK
5.000	18	51	116.672	-0.215	0.000	0.01	1.1	OK
2.006	19	51	115.666	-0.513	0.000	0.05	21.4	OK
2.007	20	51	115.498	-0.509	0.000	0.06	22.5	OK
1.004	21	51	115.360	-0.488	0.000	0.08	27.7	OK

M-EC		Page 98
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
1.005	22	51	115.145	-0.642	0.000	0.05		31.5	OK
6.000	23	51	116.733	-0.197	0.000	0.04		1.6	OK
6.001	24	51	116.498	-0.195	0.000	0.04		1.6	OK
6.002	25	51	116.362	-0.263	0.000	0.04		2.7	OK
6.003	26	51	116.062	-0.253	0.000	0.06		3.7	OK
6.004	27	51	115.930	-0.326	0.000	0.04		5.3	OK
6.005	28	51	115.646	-0.337	0.000	0.02		5.3	OK
1.006	29	51	114.984	-0.646	0.000	0.05		39.5	OK
7.000	30	51	118.060	-0.200	0.000	0.03		1.1	OK
7.001	31	51	117.892	-0.203	0.000	0.02		2.4	OK
1.007	8	51	114.706	-0.635	0.000	0.06		42.4	OK
8.000	60	51	116.651	-0.205	0.000	0.02		0.7	OK
8.001	61	51	116.395	-0.289	0.000	0.01		0.8	OK
8.002	35	51	116.135	-0.293	0.000	0.00		1.2	OK
1.008	10	51	114.403	-0.676	0.000	0.13		43.7	OK
9.000	62	51	119.035	-0.265	0.000	0.03		2.7	OK
10.000	40	51	118.739	-0.229	0.000	0.13		7.9	OK
9.001	63	51	118.668	-0.311	0.000	0.07		11.6	OK
9.002	64	51	118.187	-0.331	0.000	0.03		14.7	OK
9.003	148	51	114.886	-0.380	0.000	0.06		15.1	OK
1.009	11	51	114.369	-0.691	0.000	0.08		59.7	OK
1.010	12	51	114.317	-0.659	0.000	0.16		60.7	OK
1.011	13	51	114.277	-0.677	0.000	0.14		61.1	OK
1.012	14	51	114.099	-0.822	0.000	0.06		61.5	OK
1.013	15	51	114.075	-0.795	0.000	0.13		61.4	OK
1.014	16	51	113.973	-0.874	0.000	0.07		61.4	OK
11.000	TWC16	51	117.643	-0.198	0.000	0.03		3.3	OK
11.001	TWC17	51	115.459	-0.201	0.000	0.03		3.3	OK
1.015	17	51	113.864	-1.006	0.000	0.05		64.6	OK
1.016	18	51	113.772	-0.995	0.000	0.05		64.3	OK
12.000	TWC1	51	117.601	-0.200	0.000	0.03		1.1	OK
12.001	TWC2	51	117.440	-0.196	0.000	0.04		1.6	OK
12.002	TWC3	51	117.191	-0.179	0.000	0.09		3.2	OK
12.003	TWC4	51	117.118	-0.179	0.000	0.10		3.2	OK
13.000	TWC5	51	118.097	-0.193	0.000	0.05		1.9	OK
13.001	TWC6	51	117.889	-0.179	0.000	0.09		3.4	OK
13.002	TWC7	51	117.709	-0.189	0.000	0.06		4.3	OK
12.004	TWC8	51	116.943	-0.299	0.000	0.09		8.3	OK
12.005	TWC9	51	116.873	-0.295	0.000	0.10		9.1	OK
12.006	TWC10	51	116.803	-0.317	0.000	0.06		9.4	OK
1.017	TWC11	51	113.690	-0.977	0.000	0.05		73.2	OK
1.018	19	51	113.640	-0.953	0.000	0.04		72.3	OK
14.000	TWC12	51	117.203	-0.206	0.000	0.02		0.7	OK
14.001	TWC13	51	117.037	-0.215	0.000	0.01		1.2	OK
14.002	TWC14	51	116.080	-0.199	0.000	0.03		2.5	OK
1.019	TWC15	51	113.627	-0.701	0.000	0.06		74.9	OK
15.000	65	51	117.107	-0.262	0.000	0.04		2.7	OK
16.000	136	51	118.004	-0.210	0.000	0.01		0.9	OK
16.001	137	51	117.699	-0.208	0.000	0.02		0.9	OK

M-EC		Page 99
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	51	117.437	-0.282	0.000	0.01		1.7	OK
15.001	66	51	116.864	-0.322	0.000	0.05		5.8	OK
15.002	67	51	116.727	-0.317	0.000	0.06		6.5	OK
17.000	9	51	117.288	-0.296	0.000	0.00		0.2	OK
17.001	75	51	117.125	-0.272	0.000	0.02		1.5	OK
17.002	76	51	116.713	-0.507	0.000	0.01		2.9	OK
15.003	68	51	116.490	-0.455	0.000	0.04		10.7	OK
15.004	69	51	116.296	-0.521	0.000	0.04		12.9	OK
15.005	70	51	116.214	-0.514	0.000	0.05		12.9	OK
15.006	71	51	116.167	-0.507	0.000	0.05		15.0	OK
18.000	147	51	116.761	-0.210	0.000	0.01		0.5	OK
18.001	112	51	116.578	-0.269	0.000	0.02		1.2	OK
18.002	113	51	116.392	-0.411	0.000	0.01		1.6	OK
19.000	115	51	117.277	-0.217	0.000	0.01		0.4	OK
19.001	116	51	117.019	-0.211	0.000	0.01		1.0	OK
18.003	77	51	116.347	-0.403	0.000	0.02		3.0	OK
20.000	134	51	117.222	-0.210	0.000	0.01		1.2	OK
18.004	135	51	116.243	-0.457	0.000	0.03		5.1	OK
18.005	78	51	116.183	-0.462	0.000	0.03		5.9	OK
15.007	72	51	116.116	-0.482	0.000	0.08		21.8	OK
15.008	73	51	116.004	-0.450	0.000	0.11		22.9	OK
15.009	74	51	115.960	-0.451	0.000	0.14		22.9	OK
15.010	98	51	115.908	-0.477	0.000	0.09		22.9	OK
15.011	99	51	115.796	-0.487	0.000	0.08		22.9	OK
15.012	101	51	115.614	-0.485	0.000	0.08		22.8	OK
21.000	142	51	117.089	-0.200	0.000	0.03		1.4	OK
21.001	143	51	116.669	-0.198	0.000	0.03		2.0	OK
22.000	118	51	117.084	-0.222	0.000	0.00		0.1	OK
22.001	119	51	117.016	-0.204	0.000	0.02		0.6	OK
22.002	120	51	116.962	-0.199	0.000	0.03		1.9	OK
23.000	129	51	116.596	-0.281	0.000	0.01		1.1	OK
23.001	130	51	116.460	-0.282	0.000	0.01		1.3	OK
22.003	121	51	116.243	-0.251	0.000	0.06		4.2	OK
24.000	131	51	116.884	-0.195	0.000	0.04		1.8	OK
24.001	132	51	116.603	-0.180	0.000	0.09		2.4	OK
24.002	133	51	116.471	-0.269	0.000	0.02		2.8	OK
22.004	122	51	116.033	-0.391	0.000	0.04		7.5	OK
22.005	123	51	115.952	-0.376	0.000	0.06		8.6	OK
25.000	139	51	116.692	-0.194	0.000	0.05		1.3	OK
25.001	140	51	116.580	-0.194	0.000	0.05		2.9	OK
22.006	124	51	115.896	-0.366	0.000	0.08		12.0	OK
22.007	125	51	115.687	-0.520	0.000	0.04		12.0	OK
22.008	126	51	115.492	-0.668	0.000	0.02		12.8	OK
22.009	127	51	115.423	-0.640	0.000	0.05		12.8	OK
21.002	149	51	115.332	-0.683	0.000	0.02		14.9	OK
1.020	20	51	113.606	0.052	0.000	1.68		111.4	SURCHARGED
1.021	108	51	113.346	-0.199	0.000	0.45		112.2	OK
1.022	21	51	113.208	-0.201	0.000	0.44		112.6	OK
1.023	22	51	113.038	-0.183	0.000	0.46		112.6	OK

M-EC		Page 100
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	51	119.274	-0.664	0.000	0.00		2.5	OK
26.001	90	51	118.944	-0.663	0.000	0.00		3.0	OK
27.000	200	51	119.529	-0.287	0.000	0.01		1.4	OK
27.001	109	51	118.782	-0.497	0.000	0.01		1.6	OK
26.002	91	51	118.527	-0.721	0.000	0.01		4.6	OK
28.000	TWD27	51	119.348	-0.269	0.000	0.02		2.9	OK
26.003	91A	51	118.378	-0.784	0.000	0.01		8.0	OK
26.004	92	51	118.294	-0.770	0.000	0.01		9.1	OK
26.005	93	51	118.224	-0.779	0.000	0.01		9.1	OK
29.000	TWD29	51	119.368	-0.197	0.000	0.04		1.3	OK
29.001	TWD30	51	119.194	-0.264	0.000	0.03		2.2	OK
29.002	TWD31	51	119.072	-0.276	0.000	0.02		2.9	OK
26.006	94	51	118.103	-0.763	0.000	0.02		12.2	OK
26.007	95	51	117.994	-0.761	0.000	0.02		12.6	OK
30.000	201	51	119.172	-0.269	0.000	0.02		1.9	OK
30.001	202	51	118.926	-0.264	0.000	0.04		2.6	OK
30.002	203	51	118.849	-0.252	0.000	0.06		4.6	OK
30.003	204	51	118.648	-0.335	0.000	0.03		5.4	OK
30.004	117	51	118.352	-0.319	0.000	0.05		5.7	OK
26.008	95A	51	117.872	-0.739	0.000	0.02		19.3	OK
26.009	96	51	117.688	-0.745	0.000	0.02		19.3	OK
26.010	97	51	117.281	-0.757	0.000	0.02		19.3	OK
31.000	121	51	116.893	-0.727	0.000	0.03		12.4	OK
32.000	TWD4	51	120.053	-0.208	0.000	0.02		0.8	OK
32.001	TWD5	51	119.849	-0.200	0.000	0.03		1.7	OK
33.000	TWD16	51	119.451	-0.260	0.000	0.04		2.8	OK
32.002	TWD6	51	119.264	-0.324	0.000	0.05		4.9	OK
34.000	TWD17	51	119.504	-0.203	0.000	0.02		1.1	OK
35.000	TWD18	51	119.432	-0.206	0.000	0.02		0.7	OK
32.003	TWD7	51	119.115	-0.325	0.000	0.04		7.2	OK
32.004	TWD8	51	118.593	-0.390	0.000	0.04		8.8	OK
32.005	TWD9	51	118.469	-0.382	0.000	0.06		9.4	OK
32.006	TWD10	51	118.420	-0.381	0.000	0.06		9.5	OK
36.000	TWD19	51	119.525	-0.196	0.000	0.04		2.8	OK
32.007	TWD11	51	117.237	-0.484	0.000	0.08		12.7	OK
37.000	TWD20	51	119.286	-0.200	0.000	0.03		1.1	OK
37.001	TWD21	51	119.006	-0.265	0.000	0.03		2.1	OK
37.002	TWD22	51	118.807	-0.259	0.000	0.05		3.0	OK
37.003	TWD23	51	118.532	-0.328	0.000	0.04		4.0	OK
37.004	TWD24	51	118.449	-0.337	0.000	0.02		4.6	OK
37.005	TWD25	51	117.962	-0.336	0.000	0.02		5.3	OK
32.008	TWD12	51	117.127	-0.573	0.000	0.05		19.0	OK
38.000	TWD26	51	119.240	-0.210	0.000	0.01		1.4	OK
32.009	TWD13	51	116.989	-0.626	0.000	0.05		21.0	OK
32.010	TWD14	51	116.926	-0.621	0.000	0.05		21.8	OK
32.011	TWD15	51	116.877	-0.618	0.000	0.07		22.8	OK
26.011	98	51	116.649	-0.939	0.000	0.02		54.5	OK
26.012	99	51	116.093	-0.927	0.000	0.03		54.5	OK
26.013	100	51	115.860	-0.869	0.000	0.07		54.5	OK

M-EC		Page 101
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 960 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.024	23	51	112.974	-0.158	0.000	0.63		164.0	OK
1.025	24	51	112.769	-0.157	0.000	0.64		164.0	OK
1.026	25	51	112.541	-0.248	0.000	0.26		163.9	OK
39.000	79	51	121.651	-0.522	0.000	0.00		0.6	OK
39.001	80	51	121.243	-0.516	0.000	0.00		1.7	OK
39.002	81	51	120.664	-0.663	0.000	0.00		2.0	OK
40.000	130	51	120.998	-0.203	0.000	0.02		0.7	OK
41.000	BAR1	51	121.673	-0.132	0.000	0.03		1.0	OK
41.001	131	51	120.831	-0.343	0.000	0.02		1.7	OK
39.003	81A	51	120.484	-0.650	0.000	0.01		4.8	OK
42.000	133	51	120.656	-0.290	0.000	0.01		0.4	OK
39.004	82	51	120.195	-0.710	0.000	0.01		6.0	OK
39.005	83	51	120.119	-0.716	0.000	0.01		6.0	OK
43.000	BAR2	51	121.498	-0.131	0.000	0.04		1.2	OK
43.001	136	51	120.358	-0.334	0.000	0.03		2.0	OK
39.006	83A	51	119.970	-0.700	0.000	0.01		8.6	OK
44.000	206	51	120.440	-0.417	0.000	0.01		1.3	OK
44.001	207	51	120.409	-0.411	0.000	0.01		1.6	OK
44.002	208	51	120.375	-0.401	0.000	0.02		2.8	OK
44.003	209	51	120.319	-0.385	0.000	0.03		2.8	OK
45.000	210	51	120.878	-0.207	0.000	0.02		0.7	OK
45.001	211	51	120.671	-0.271	0.000	0.02		1.4	OK
45.002	212	51	120.415	-0.341	0.000	0.02		2.0	OK
44.004	213	51	120.308	-0.374	0.000	0.06		6.3	OK
44.005	214	51	120.269	-0.377	0.000	0.05		6.6	OK
44.006	215	51	120.216	-0.365	0.000	0.08		7.7	OK
44.007	138	51	120.178	-0.379	0.000	0.06		7.7	OK
39.007	84	51	119.794	-0.731	0.000	0.03		17.9	OK
46.000	BAR4	51	121.515	-0.194	0.000	0.05		1.7	OK
46.001	BAR5	51	121.301	-0.187	0.000	0.07		2.5	OK
47.000	BAR6	51	122.021	-0.130	0.000	0.04		0.7	OK
47.001	BAR7	51	121.676	-0.195	0.000	0.04		1.6	OK
47.002	BAR8	51	121.530	-0.197	0.000	0.04		2.2	OK
46.002	BAR9	51	121.137	-0.242	0.000	0.08		5.2	OK
46.003	BAR10	51	121.040	-0.261	0.000	0.04		6.6	OK
46.004	140	51	120.112	-0.383	0.000	0.05		6.6	OK
39.008	85	51	119.739	-0.729	0.000	0.03		24.4	OK
39.009	86	51	119.604	-0.730	0.000	0.03		25.5	OK
48.000	BAR3	51	120.814	-0.134	0.000	0.03		0.8	OK
48.001	143	51	119.757	-0.417	0.000	0.02		1.7	OK
49.000	216	51	120.391	-0.279	0.000	0.02		2.6	OK
49.001	144	51	119.789	-0.406	0.000	0.02		2.8	OK
39.010	87	51	119.356	-0.796	0.000	0.03		30.0	OK
39.011	88	51	119.218	-0.789	0.000	0.04		35.0	OK
39.012	103	51	119.066	-0.785	0.000	0.04		37.9	OK
50.000	BAR11	51	121.316	-0.129	0.000	0.05		0.9	OK
50.001	BAR12	51	120.942	-0.196	0.000	0.04		2.1	OK
51.000	BAR13	51	120.755	-0.213	0.000	0.01		0.3	OK
50.002	BAR14	51	120.727	-0.192	0.000	0.05		2.9	OK

M-EC		Page 102
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 960 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	51	120.822	-0.129	0.000	0.05		0.8	OK
52.001	BAR16	51	120.527	-0.199	0.000	0.03		1.4	OK
50.003	BAR17	51	120.372	-0.246	0.000	0.08		4.6	OK
50.004	BAR18	51	120.298	-0.243	0.000	0.08		5.2	OK
50.005	BAR19	51	120.184	-0.265	0.000	0.03		5.8	OK
50.006	149	51	119.329	-0.396	0.000	0.03		5.8	OK
53.000	TWD1	51	120.405	-0.209	0.000	0.02		0.6	OK
54.000	TWD3	51	120.662	-0.220	0.000	0.00		0.4	OK
53.001	TWD2	51	120.043	-0.203	0.000	0.02		1.8	OK
39.013	104	51	118.798	-0.872	0.000	0.07		45.6	OK
39.014	104A	51	118.726	-0.909	0.000	0.04		45.8	OK
55.000	BAR20	51	121.367	-0.126	0.000	0.06		1.1	OK
55.001	BAR21	51	120.856	-0.197	0.000	0.04		2.0	OK
56.000	BAR22	51	120.412	-0.193	0.000	0.05		1.8	OK
56.001	BAR23	51	120.283	-0.186	0.000	0.07		2.3	OK
55.002	BAR24	51	120.159	-0.255	0.000	0.06		4.5	OK
55.003	BAR25	51	119.872	-0.322	0.000	0.05		5.3	OK
55.004	BAR26	51	119.777	-0.339	0.000	0.02		6.4	OK
39.015	105	51	118.556	-0.918	0.000	0.04		52.2	OK
39.016	106	51	118.353	-1.794	0.000	0.01		52.1	OK
39.017	107	51	115.694	-0.853	0.000	0.03		52.0	OK
1.027	26	51	111.983	-0.925	0.000	0.06		214.7	OK
1.028	27	51	109.192	-0.555	0.000	0.10		214.8	OK
1.029	28	51	106.246	-0.945	0.000	0.05		214.7	OK
1.030	29	51	97.274	-1.203	0.000	0.04		214.5	OK
1.031	30	51	92.694	-0.688	0.000	0.10		213.9	OK
1.032	31	51	91.472	-0.778	0.000	0.14		212.3	OK
1.033	32	51	91.023	-1.100	0.000	0.07		213.5	OK
1.034	33	44	90.271	-0.002	0.000	0.65		160.0	OK*
57.000	108	51	90.646	-1.240	0.000	0.04		67.5	OK
57.001	109	51	90.492	-1.394	0.000	0.03		66.3	OK
57.002	110	51	90.294	-1.592	0.000	0.03		65.4	OK
1.035	109	39	90.178	0.312	0.000	0.23		55.2	SURCHARGED*
1.036	34	30	86.650	0.000	0.000	0.66		55.2	SURCHARGED*

M-EC		Page 103
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 1 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	53	116.573	-0.282	0.000	0.01	1.0	OK
1.001	2	53	116.430	-0.279	0.000	0.01	1.3	OK
1.002	3	53	116.132	-0.356	0.000	0.01	1.3	OK
1.003	4	53	116.010	-0.337	0.000	0.02	3.8	OK
2.000	5	53	118.391	-0.284	0.000	0.01	1.3	OK
2.001	6	53	118.194	-0.267	0.000	0.03	2.8	OK
2.002	6	53	117.944	-0.269	0.000	0.02	3.2	OK
2.003	8	53	117.072	-0.276	0.000	0.02	4.0	OK
3.000	9.1	53	118.227	-0.198	0.000	0.03	1.8	OK
3.001	9	53	116.876	-0.269	0.000	0.02	1.8	OK
3.002	10	53	116.646	-0.337	0.000	0.02	2.4	OK
3.003	11	53	116.481	-0.401	0.000	0.03	4.6	OK
4.000	12	53	117.077	-0.209	0.000	0.01	1.5	OK
3.004	13	53	116.284	-0.476	0.000	0.02	6.2	OK
3.005	14	53	116.091	-0.462	0.000	0.03	8.4	OK
3.006	15	53	115.940	-0.525	0.000	0.04	8.6	OK
2.004	16	53	115.917	-0.526	0.000	0.04	12.6	OK
2.005	17	53	115.825	-0.528	0.000	0.03	14.4	OK
5.000	18	53	116.670	-0.217	0.000	0.01	0.8	OK
2.006	19	53	115.654	-0.525	0.000	0.04	15.9	OK
2.007	20	53	115.485	-0.522	0.000	0.04	16.7	OK
1.004	21	53	115.342	-0.506	0.000	0.06	20.5	OK

M-EC		Page 104
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 1440 minute 1 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	53	115.130	-0.657	0.000	0.04		23.4	OK
6.000	23	53	116.730	-0.200	0.000	0.03		1.2	OK
6.001	24	53	116.495	-0.198	0.000	0.03		1.2	OK
6.002	25	53	116.357	-0.268	0.000	0.03		2.0	OK
6.003	26	53	116.055	-0.260	0.000	0.04		2.7	OK
6.004	27	53	115.924	-0.332	0.000	0.03		3.9	OK
6.005	28	53	115.638	-0.345	0.000	0.02		3.9	OK
1.006	29	53	114.971	-0.659	0.000	0.04		29.3	OK
7.000	30	53	118.057	-0.203	0.000	0.02		0.8	OK
7.001	31	53	117.886	-0.209	0.000	0.02		1.8	OK
1.007	8	53	114.689	-0.652	0.000	0.04		31.5	OK
8.000	60	53	116.646	-0.210	0.000	0.01		0.5	OK
8.001	61	53	116.392	-0.292	0.000	0.01		0.6	OK
8.002	35	53	116.133	-0.295	0.000	0.00		0.9	OK
1.008	10	53	114.373	-0.706	0.000	0.10		32.4	OK
9.000	62	53	119.031	-0.269	0.000	0.02		2.0	OK
10.000	40	53	118.730	-0.238	0.000	0.10		5.8	OK
9.001	63	53	118.658	-0.321	0.000	0.05		8.6	OK
9.002	64	53	118.182	-0.336	0.000	0.02		10.9	OK
9.003	148	53	114.876	-0.390	0.000	0.04		11.2	OK
1.009	11	53	114.340	-0.720	0.000	0.06		44.3	OK
1.010	12	53	114.284	-0.692	0.000	0.12		45.0	OK
1.011	13	53	114.247	-0.707	0.000	0.10		45.3	OK
1.012	14	53	114.066	-0.855	0.000	0.05		45.6	OK
1.013	15	53	114.041	-0.829	0.000	0.10		45.6	OK
1.014	16	53	113.946	-0.901	0.000	0.05		45.6	OK
11.000	TWC16	53	117.640	-0.201	0.000	0.03		2.5	OK
11.001	TWC17	53	115.456	-0.204	0.000	0.02		2.5	OK
1.015	17	53	113.833	-1.037	0.000	0.03		48.1	OK
1.016	18	53	113.736	-1.031	0.000	0.04		48.1	OK
12.000	TWC1	53	117.599	-0.202	0.000	0.02		0.8	OK
12.001	TWC2	53	117.437	-0.199	0.000	0.03		1.2	OK
12.002	TWC3	53	117.183	-0.187	0.000	0.07		2.3	OK
12.003	TWC4	53	117.111	-0.186	0.000	0.07		2.3	OK
13.000	TWC5	53	118.093	-0.197	0.000	0.04		1.4	OK
13.001	TWC6	53	117.881	-0.187	0.000	0.07		2.5	OK
13.002	TWC7	53	117.703	-0.195	0.000	0.04		3.2	OK
12.004	TWC8	53	116.930	-0.312	0.000	0.06		6.2	OK
12.005	TWC9	53	116.861	-0.307	0.000	0.08		6.8	OK
12.006	TWC10	53	116.795	-0.325	0.000	0.04		7.0	OK
1.017	TWC11	53	113.647	-1.020	0.000	0.04		55.0	OK
1.018	19	53	113.589	-1.004	0.000	0.03		55.0	OK
14.000	TWC12	53	117.198	-0.211	0.000	0.01		0.5	OK
14.001	TWC13	53	117.035	-0.217	0.000	0.01		0.9	OK
14.002	TWC14	53	116.077	-0.202	0.000	0.02		1.9	OK
1.019	TWC15	52	113.574	-0.754	0.000	0.05		56.9	OK
15.000	65	53	117.103	-0.266	0.000	0.03		2.0	OK
16.000	136	53	118.000	-0.214	0.000	0.01		0.6	OK
16.001	137	53	117.695	-0.212	0.000	0.01		0.7	OK



M-EC		Page 105
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
16.002	138	53	117.433	-0.286	0.000	0.01		1.2	OK
15.001	66	53	116.857	-0.329	0.000	0.04		4.3	OK
15.002	67	53	116.719	-0.325	0.000	0.04		4.8	OK
17.000	9	53	117.287	-0.297	0.000	0.00		0.2	OK
17.001	75	53	117.118	-0.279	0.000	0.01		1.1	OK
17.002	76	53	116.708	-0.512	0.000	0.01		2.2	OK
15.003	68	53	116.482	-0.463	0.000	0.03		7.9	OK
15.004	69	53	116.286	-0.531	0.000	0.03		9.6	OK
15.005	70	53	116.201	-0.527	0.000	0.03		9.6	OK
15.006	71	53	116.152	-0.522	0.000	0.04		11.1	OK
18.000	147	53	116.757	-0.214	0.000	0.01		0.4	OK
18.001	112	53	116.572	-0.275	0.000	0.02		0.9	OK
18.002	113	53	116.382	-0.421	0.000	0.01		1.2	OK
19.000	115	53	117.275	-0.219	0.000	0.01		0.3	OK
19.001	116	53	117.015	-0.215	0.000	0.01		0.7	OK
18.003	77	53	116.337	-0.413	0.000	0.02		2.2	OK
20.000	134	53	117.218	-0.214	0.000	0.01		0.9	OK
18.004	135	53	116.235	-0.465	0.000	0.02		3.8	OK
18.005	78	53	116.175	-0.470	0.000	0.02		4.3	OK
15.007	72	53	116.096	-0.502	0.000	0.06		16.2	OK
15.008	73	53	115.983	-0.471	0.000	0.08		17.0	OK
15.009	74	53	115.940	-0.471	0.000	0.10		17.0	OK
15.010	98	53	115.888	-0.497	0.000	0.06		17.0	OK
15.011	99	53	115.778	-0.505	0.000	0.06		17.0	OK
15.012	101	53	115.595	-0.504	0.000	0.06		17.0	OK
21.000	142	53	117.087	-0.202	0.000	0.02		1.0	OK
21.001	143	53	116.666	-0.201	0.000	0.03		1.5	OK
22.000	118	53	117.083	-0.223	0.000	0.00		0.1	OK
22.001	119	53	117.011	-0.209	0.000	0.01		0.5	OK
22.002	120	53	116.959	-0.202	0.000	0.02		1.4	OK
23.000	129	53	116.591	-0.286	0.000	0.01		0.8	OK
23.001	130	53	116.456	-0.286	0.000	0.01		1.0	OK
22.003	121	53	116.236	-0.258	0.000	0.05		3.1	OK
24.000	131	53	116.880	-0.199	0.000	0.03		1.4	OK
24.001	132	53	116.595	-0.188	0.000	0.07		1.8	OK
24.002	133	53	116.464	-0.277	0.000	0.02		2.1	OK
22.004	122	53	116.026	-0.399	0.000	0.03		5.6	OK
22.005	123	53	115.940	-0.388	0.000	0.04		6.4	OK
25.000	139	53	116.688	-0.198	0.000	0.03		0.9	OK
25.001	140	53	116.576	-0.198	0.000	0.03		2.1	OK
22.006	124	53	115.882	-0.379	0.000	0.06		8.9	OK
22.007	125	53	115.677	-0.530	0.000	0.03		8.9	OK
22.008	126	53	115.480	-0.679	0.000	0.02		9.5	OK
22.009	127	53	115.408	-0.655	0.000	0.04		9.5	OK
21.002	149	53	115.314	-0.701	0.000	0.01		11.0	OK
1.020	20	52	113.554	0.000	0.000	1.28		84.9	OK
1.021	108	53	113.319	-0.226	0.000	0.34		84.8	OK
1.022	21	53	113.182	-0.227	0.000	0.33		84.6	OK
1.023	22	53	113.008	-0.213	0.000	0.34		84.3	OK

M-EC		Page 106
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	53	119.271	-0.667	0.000	0.00		1.9	OK
26.001	90	53	118.941	-0.666	0.000	0.00		2.2	OK
27.000	200	53	119.526	-0.290	0.000	0.01		1.1	OK
27.001	109	53	118.775	-0.504	0.000	0.01		1.2	OK
26.002	91	53	118.519	-0.729	0.000	0.01		3.4	OK
28.000	TWD27	53	119.341	-0.276	0.000	0.02		2.2	OK
26.003	91A	53	118.367	-0.795	0.000	0.01		6.0	OK
26.004	92	53	118.280	-0.784	0.000	0.01		6.8	OK
26.005	93	53	118.212	-0.791	0.000	0.01		6.8	OK
29.000	TWD29	53	119.365	-0.200	0.000	0.03		1.0	OK
29.001	TWD30	53	119.190	-0.268	0.000	0.03		1.6	OK
29.002	TWD31	53	119.066	-0.282	0.000	0.01		2.2	OK
26.006	94	53	118.087	-0.779	0.000	0.01		9.0	OK
26.007	95	53	117.977	-0.778	0.000	0.01		9.3	OK
30.000	201	53	119.165	-0.276	0.000	0.02		1.4	OK
30.001	202	53	118.922	-0.268	0.000	0.03		2.0	OK
30.002	203	53	118.842	-0.259	0.000	0.04		3.4	OK
30.003	204	53	118.642	-0.341	0.000	0.02		4.0	OK
30.004	117	53	118.344	-0.327	0.000	0.04		4.2	OK
26.008	95A	53	117.856	-0.755	0.000	0.02		14.3	OK
26.009	96	53	117.667	-0.766	0.000	0.02		14.3	OK
26.010	97	53	117.263	-0.775	0.000	0.01		14.3	OK
31.000	121	53	116.883	-0.737	0.000	0.03		9.2	OK
32.000	TWD4	53	120.048	-0.213	0.000	0.01		0.6	OK
32.001	TWD5	53	119.847	-0.202	0.000	0.02		1.3	OK
33.000	TWD16	53	119.446	-0.265	0.000	0.03		2.1	OK
32.002	TWD6	53	119.258	-0.330	0.000	0.03		3.6	OK
34.000	TWD17	53	119.498	-0.209	0.000	0.02		0.8	OK
35.000	TWD18	53	119.427	-0.211	0.000	0.01		0.6	OK
32.003	TWD7	53	119.109	-0.331	0.000	0.03		5.3	OK
32.004	TWD8	53	118.585	-0.398	0.000	0.03		6.5	OK
32.005	TWD9	53	118.459	-0.392	0.000	0.04		7.0	OK
32.006	TWD10	53	118.410	-0.391	0.000	0.04		7.1	OK
36.000	TWD19	53	119.522	-0.199	0.000	0.03		2.1	OK
32.007	TWD11	53	117.218	-0.503	0.000	0.06		9.4	OK
37.000	TWD20	53	119.283	-0.203	0.000	0.02		0.8	OK
37.001	TWD21	53	119.002	-0.269	0.000	0.02		1.6	OK
37.002	TWD22	53	118.801	-0.265	0.000	0.03		2.3	OK
37.003	TWD23	53	118.526	-0.334	0.000	0.03		2.9	OK
37.004	TWD24	53	118.440	-0.346	0.000	0.02		3.4	OK
37.005	TWD25	53	117.953	-0.345	0.000	0.02		3.9	OK
32.008	TWD12	53	117.112	-0.588	0.000	0.04		14.1	OK
38.000	TWD26	53	119.236	-0.214	0.000	0.01		1.0	OK
32.009	TWD13	53	116.970	-0.645	0.000	0.04		15.6	OK
32.010	TWD14	53	116.906	-0.641	0.000	0.04		16.2	OK
32.011	TWD15	53	116.856	-0.639	0.000	0.05		16.9	OK
26.011	98	53	116.630	-0.958	0.000	0.02		40.4	OK
26.012	99	53	116.080	-0.940	0.000	0.02		40.4	OK
26.013	100	53	115.832	-0.897	0.000	0.05		40.4	OK

M-EC		Page 107
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 1440 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
1.024	23	53	112.941	-0.191	0.000	0.48		124.2	OK
1.025	24	53	112.736	-0.190	0.000	0.48		123.6	OK
1.026	25	53	112.524	-0.265	0.000	0.19		123.3	OK
39.000	79	53	121.650	-0.523	0.000	0.00		0.4	OK
39.001	80	53	121.240	-0.519	0.000	0.00		1.2	OK
39.002	81	53	120.661	-0.666	0.000	0.00		1.5	OK
40.000	130	53	120.992	-0.209	0.000	0.02		0.5	OK
41.000	BAR1	53	121.671	-0.134	0.000	0.02		0.7	OK
41.001	131	53	120.822	-0.352	0.000	0.01		1.3	OK
39.003	81A	53	120.478	-0.656	0.000	0.01		3.5	OK
42.000	133	53	120.653	-0.293	0.000	0.00		0.3	OK
39.004	82	53	120.185	-0.720	0.000	0.01		4.5	OK
39.005	83	53	120.110	-0.725	0.000	0.01		4.5	OK
43.000	BAR2	53	121.496	-0.133	0.000	0.03		0.9	OK
43.001	136	53	120.353	-0.339	0.000	0.02		1.5	OK
39.006	83A	53	119.957	-0.713	0.000	0.01		6.4	OK
44.000	206	53	120.431	-0.426	0.000	0.01		1.0	OK
44.001	207	53	120.399	-0.420	0.000	0.01		1.2	OK
44.002	208	53	120.367	-0.409	0.000	0.02		2.1	OK
44.003	209	53	120.309	-0.395	0.000	0.02		2.1	OK
45.000	210	53	120.873	-0.212	0.000	0.01		0.6	OK
45.001	211	53	120.664	-0.278	0.000	0.02		1.0	OK
45.002	212	53	120.406	-0.350	0.000	0.01		1.5	OK
44.004	213	53	120.297	-0.385	0.000	0.04		4.7	OK
44.005	214	53	120.257	-0.388	0.000	0.04		4.9	OK
44.006	215	53	120.202	-0.379	0.000	0.06		5.7	OK
44.007	138	53	120.168	-0.389	0.000	0.04		5.7	OK
39.007	84	53	119.784	-0.741	0.000	0.02		13.3	OK
46.000	BAR4	53	121.511	-0.198	0.000	0.03		1.3	OK
46.001	BAR5	53	121.295	-0.193	0.000	0.05		1.8	OK
47.000	BAR6	53	122.018	-0.133	0.000	0.03		0.5	OK
47.001	BAR7	53	121.672	-0.199	0.000	0.03		1.2	OK
47.002	BAR8	53	121.527	-0.200	0.000	0.03		1.7	OK
46.002	BAR9	53	121.128	-0.251	0.000	0.06		3.9	OK
46.003	BAR10	53	121.035	-0.266	0.000	0.03		4.9	OK
46.004	140	53	120.103	-0.392	0.000	0.04		4.9	OK
39.008	85	53	119.728	-0.740	0.000	0.02		18.1	OK
39.009	86	53	119.594	-0.740	0.000	0.02		18.9	OK
48.000	BAR3	53	120.811	-0.137	0.000	0.02		0.6	OK
48.001	143	53	119.748	-0.426	0.000	0.01		1.3	OK
49.000	216	53	120.386	-0.284	0.000	0.01		1.9	OK
49.001	144	53	119.777	-0.418	0.000	0.02		2.0	OK
39.010	87	53	119.345	-0.807	0.000	0.02		22.2	OK
39.011	88	53	119.205	-0.802	0.000	0.03		26.0	OK
39.012	103	53	119.052	-0.799	0.000	0.03		28.2	OK
50.000	BAR11	53	121.313	-0.132	0.000	0.04		0.6	OK
50.001	BAR12	53	120.938	-0.200	0.000	0.03		1.5	OK
51.000	BAR13	53	120.752	-0.216	0.000	0.01		0.3	OK
50.002	BAR14	53	120.723	-0.196	0.000	0.04		2.1	OK

M-EC		Page 108
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 1440 minute 1 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	53	120.819	-0.132	0.000	0.04		0.6	OK
52.001	BAR16	53	120.525	-0.201	0.000	0.02		1.1	OK
50.003	BAR17	53	120.364	-0.254	0.000	0.06		3.4	OK
50.004	BAR18	53	120.289	-0.252	0.000	0.06		3.8	OK
50.005	BAR19	53	120.181	-0.268	0.000	0.02		4.3	OK
50.006	149	53	119.323	-0.402	0.000	0.03		4.3	OK
53.000	TWD1	53	120.401	-0.213	0.000	0.01		0.4	OK
54.000	TWD3	53	120.660	-0.222	0.000	0.00		0.3	OK
53.001	TWD2	53	120.037	-0.209	0.000	0.02		1.3	OK
39.013	104	53	118.771	-0.899	0.000	0.05		33.8	OK
39.014	104A	53	118.708	-0.927	0.000	0.03		34.0	OK
55.000	BAR20	53	121.364	-0.129	0.000	0.05		0.8	OK
55.001	BAR21	53	120.853	-0.200	0.000	0.03		1.5	OK
56.000	BAR22	53	120.408	-0.197	0.000	0.04		1.3	OK
56.001	BAR23	53	120.277	-0.192	0.000	0.05		1.7	OK
55.002	BAR24	53	120.153	-0.261	0.000	0.04		3.3	OK
55.003	BAR25	53	119.865	-0.329	0.000	0.04		3.9	OK
55.004	BAR26	53	119.768	-0.348	0.000	0.02		4.7	OK
39.015	105	53	118.540	-0.934	0.000	0.03		38.7	OK
39.016	106	53	118.328	-1.819	0.000	0.01		38.7	OK
39.017	107	53	115.671	-0.876	0.000	0.02		38.7	OK
1.027	26	53	111.948	-0.960	0.000	0.04		161.5	OK
1.028	27	53	109.157	-0.590	0.000	0.08		161.0	OK
1.029	28	53	106.210	-0.981	0.000	0.04		161.6	OK
1.030	29	53	97.234	-1.243	0.000	0.03		162.4	OK
1.031	30	53	92.650	-0.732	0.000	0.08		162.9	OK
1.032	31	53	91.406	-0.844	0.000	0.10		163.4	OK
1.033	32	53	90.967	-1.156	0.000	0.05		163.1	OK
1.034	33	47	90.235	-0.038	0.000	0.53		128.4	OK*
57.000	108	53	90.586	-1.300	0.000	0.03		50.2	OK
57.001	109	53	90.440	-1.446	0.000	0.03		49.8	OK
57.002	110	53	90.249	-1.637	0.000	0.02		48.6	OK
1.035	109	43	90.151	0.285	0.000	0.23		55.2	SURCHARGED*
1.036	34	29	86.650	0.000	0.000	0.63		52.6	SURCHARGED*

M-EC		Page 109
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Flow / Overflow (l/s)	Flow (l/s)		
1.000	1	22	116.688	-0.167	0.000	0.40		31.9	OK	
1.001	2	23	116.558	-0.151	0.000	0.48		42.0	OK	
1.002	3	24	116.492	0.004	0.000	0.34		42.1	SURCHARGED	
1.003	4	24	116.493	0.146	0.000	0.69		123.1	SURCHARGED	
2.000	5	10	118.501	-0.174	0.000	0.37		42.0	OK	
2.001	6	10	118.388	-0.073	0.000	0.92		94.8	OK	
2.002	6	12	118.119	-0.094	0.000	0.78		106.2	OK	
2.003	8	22	117.212	-0.136	0.000	0.56		133.2	OK	
3.000	9.1	10	118.516	0.091	0.000	0.99		51.9	SURCHARGED	
3.001	9	24	117.021	-0.124	0.000	0.64		51.5	OK	
3.002	10	24	116.897	-0.086	0.000	0.61		65.5	OK	
3.003	11	24	116.871	-0.011	0.000	0.77		135.6	OK	
4.000	12	22	117.171	-0.115	0.000	0.47		48.5	OK	
3.004	13	24	116.805	0.045	0.000	0.53		166.5	SURCHARGED	
3.005	14	24	116.797	0.244	0.000	0.85		209.2	SURCHARGED	
3.006	15	24	116.780	0.315	0.000	0.88		197.0	SURCHARGED	
2.004	16	24	116.777	0.334	0.000	0.93		323.1	SURCHARGED	
2.005	17	24	116.770	0.417	0.000	0.84		350.2	SURCHARGED	
5.000	18	24	116.735	-0.152	0.000	0.23		27.2	OK	
2.006	19	24	116.667	0.488	0.000	0.89		370.7	SURCHARGED	
2.007	20	24	116.585	0.578	0.000	0.97		386.2	SURCHARGED	
1.004	21	24	116.495	0.647	0.000	1.43		494.7	SURCHARGED	

M-EC		Page 110
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	24	116.492	0.705	0.000	0.86		530.7	SURCHARGED
6.000	23	21	116.869	-0.061	0.000	0.86		38.6	OK
6.001	24	22	116.691	-0.002	0.000	1.00		36.9	OK
6.002	25	22	116.553	-0.072	0.000	0.79		59.2	OK
6.003	26	24	116.487	0.172	0.000	1.28		78.4	SURCHARGED
6.004	27	24	116.485	0.229	0.000	0.86		108.1	SURCHARGED
6.005	28	24	116.483	0.500	0.000	0.47		109.2	SURCHARGED
1.006	29	23	116.486	0.856	0.000	0.75		629.4	SURCHARGED
7.000	30	7	118.170	-0.090	0.000	0.65		25.5	OK
7.001	31	8	117.986	-0.109	0.000	0.51		60.7	OK
1.007	8	22	116.447	1.106	0.000	0.87		649.2	SURCHARGED
8.000	60	16	116.738	-0.118	0.000	0.45		17.3	OK
8.001	61	22	116.473	-0.211	0.000	0.19		19.9	OK
8.002	35	22	116.293	-0.135	0.000	0.12		29.9	OK
1.008	10	22	116.290	1.211	0.000	1.98		656.2	SURCHARGED
9.000	62	8	119.479	0.179	0.000	0.67		55.1	SURCHARGED
10.000	40	8	119.774	0.806	0.000	2.61		160.4	SURCHARGED
9.001	63	8	119.332	0.353	0.000	1.37		230.3	SURCHARGED
9.002	64	8	118.362	-0.156	0.000	0.62		284.8	OK
9.003	148	22	116.439	1.173	0.000	1.12		286.7	SURCHARGED
1.009	11	22	116.287	1.227	0.000	1.24		914.1	SURCHARGED
1.010	12	22	116.282	1.306	0.000	2.46		917.7	SURCHARGED
1.011	13	22	116.278	1.324	0.000	2.11		917.1	SURCHARGED
1.012	14	22	116.273	1.352	0.000	0.96		905.6	SURCHARGED
1.013	15	22	116.270	1.400	0.000	1.94		885.2	SURCHARGED
1.014	16	22	116.266	1.419	0.000	0.87		797.2	SURCHARGED
11.000	TWC16	8	117.771	-0.070	0.000	0.79		77.6	OK
11.001	TWC17	22	116.261	0.601	0.000	0.62		78.0	SURCHARGED
1.015	17	22	116.261	1.391	0.000	0.50		715.0	SURCHARGED
1.016	18	22	116.257	1.490	0.000	0.48		646.0	SURCHARGED
12.000	TWC1	8	118.067	0.266	0.000	0.60		22.4	SURCHARGED
12.001	TWC2	8	118.005	0.369	0.000	0.80		30.6	SURCHARGED
12.002	TWC3	9	117.846	0.476	0.000	1.68		57.9	SURCHARGED
12.003	TWC4	10	117.631	0.334	0.000	1.72		56.8	SURCHARGED
13.000	TWC5	8	118.915	0.625	0.000	1.01		38.2	SURCHARGED
13.001	TWC6	8	118.723	0.655	0.000	1.64		61.2	SURCHARGED
13.002	TWC7	8	118.256	0.358	0.000	1.08		76.9	SURCHARGED
12.004	TWC8	11	117.464	0.222	0.000	1.54		148.4	SURCHARGED
12.005	TWC9	12	117.281	0.113	0.000	1.82		160.9	SURCHARGED
12.006	TWC10	12	117.116	-0.004	0.000	1.00		161.5	OK
1.017	TWC11	22	116.252	1.585	0.000	0.50		730.8	SURCHARGED
1.018	19	22	116.247	1.654	0.000	0.35		716.2	SURCHARGED
14.000	TWC12	11	117.287	-0.122	0.000	0.42		15.6	OK
14.001	TWC13	12	117.103	-0.149	0.000	0.24		30.8	OK
14.002	TWC14	22	116.241	-0.038	0.000	0.81		63.9	OK
1.019	TWC15	22	116.241	1.913	0.000	0.56		698.3	SURCHARGED
15.000	65	12	117.374	0.005	0.000	0.86		59.3	SURCHARGED
16.000	136	8	118.080	-0.134	0.000	0.34		20.3	OK
16.001	137	9	117.779	-0.128	0.000	0.38		21.6	OK

M-EC		Page 111
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	11	117.536	-0.183	0.000	0.32		41.1	OK
15.001	66	12	117.234	0.048	0.000	1.04		122.6	SURCHARGED
15.002	67	14	117.074	0.030	0.000	1.20		135.5	SURCHARGED
17.000	9	12	117.335	-0.249	0.000	0.07		5.4	OK
17.001	75	12	117.251	-0.146	0.000	0.51		39.5	OK
17.002	76	16	116.935	-0.285	0.000	0.19		76.0	OK
15.003	68	20	116.911	-0.034	0.000	0.89		215.1	OK
15.004	69	20	116.817	0.000	0.000	0.71		222.9	OK
15.005	70	16	116.748	0.020	0.000	0.76		214.2	SURCHARGED
15.006	71	17	116.708	0.034	0.000	0.75		231.7	SURCHARGED
18.000	147	15	116.862	-0.109	0.000	0.33		12.8	OK
18.001	112	16	116.843	-0.004	0.000	0.59		31.2	OK
18.002	113	15	116.803	0.000	0.000	0.29		36.2	OK
19.000	115	11	117.332	-0.162	0.000	0.17		8.3	OK
19.001	116	12	117.095	-0.135	0.000	0.33		25.6	OK
18.003	77	18	116.750	0.000	0.000	0.46		57.4	OK
20.000	134	11	117.296	-0.136	0.000	0.33		27.8	OK
18.004	135	16	116.704	0.004	0.000	0.53		89.8	SURCHARGED
18.005	78	18	116.683	0.038	0.000	0.45		78.7	SURCHARGED
15.007	72	18	116.663	0.065	0.000	1.06		301.1	SURCHARGED
15.008	73	20	116.515	0.061	0.000	1.42		302.0	SURCHARGED
15.009	74	21	116.441	0.030	0.000	1.86		301.9	SURCHARGED
15.010	98	22	116.385	0.000	0.000	1.09		292.3	OK
15.011	99	22	116.294	0.011	0.000	0.91		256.8	SURCHARGED
15.012	101	22	116.266	0.167	0.000	0.71		195.1	SURCHARGED
21.000	142	12	117.204	-0.085	0.000	0.68		31.6	OK
21.001	143	14	116.800	-0.067	0.000	0.82		48.5	OK
22.000	118	14	117.134	-0.172	0.000	0.07		2.3	OK
22.001	119	14	117.121	-0.099	0.000	0.50		15.9	OK
22.002	120	14	117.089	-0.072	0.000	0.77		48.0	OK
23.000	129	16	116.796	-0.081	0.000	0.30		24.7	OK
23.001	130	16	116.764	0.022	0.000	0.29		29.8	SURCHARGED
22.003	121	17	116.709	0.215	0.000	1.33		86.8	SURCHARGED
24.000	131	13	117.176	0.098	0.000	0.99		41.6	SURCHARGED
24.001	132	14	116.899	0.117	0.000	2.00		54.3	SURCHARGED
24.002	133	19	116.672	-0.068	0.000	0.48		61.1	OK
22.004	122	20	116.584	0.159	0.000	0.85		155.6	SURCHARGED
22.005	123	21	116.474	0.146	0.000	1.15		174.8	SURCHARGED
25.000	139	14	116.990	0.104	0.000	1.04		28.5	SURCHARGED
25.001	140	14	116.892	0.118	0.000	1.00		61.4	SURCHARGED
22.006	124	22	116.372	0.110	0.000	1.64		246.4	SURCHARGED
22.007	125	22	116.234	0.028	0.000	0.91		246.7	SURCHARGED
22.008	126	22	116.234	0.075	0.000	0.45		246.3	SURCHARGED
22.009	127	22	116.234	0.171	0.000	0.98		241.1	SURCHARGED
21.002	149	22	116.234	0.219	0.000	0.34		273.0	SURCHARGED
1.020	20	22	116.234	2.680	0.000	6.77		448.5	SURCHARGED
1.021	108	20	115.663	2.118	0.000	1.74		436.6	SURCHARGED
1.022	21	20	115.480	2.071	0.000	1.63		414.9	SURCHARGED
1.023	22	17	115.225	2.004	0.000	1.68		410.1	SURCHARGED

M-EC		Page 112
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	7	119.393	-0.545	0.000	0.08		58.8	OK
26.001	90	7	119.071	-0.536	0.000	0.09		70.3	OK
27.000	200	7	119.611	-0.205	0.000	0.22		33.9	OK
27.001	109	7	118.939	-0.340	0.000	0.27		38.3	OK
26.002	91	7	118.724	-0.524	0.000	0.20		109.1	OK
28.000	TWD27	7	119.474	-0.143	0.000	0.53		69.1	OK
26.003	91A	7	118.628	-0.534	0.000	0.25		191.1	OK
26.004	92	7	118.570	-0.494	0.000	0.34		217.9	OK
26.005	93	7	118.483	-0.520	0.000	0.28		213.7	OK
29.000	TWD29	7	119.505	-0.060	0.000	0.87		31.2	OK
29.001	TWD30	7	119.371	-0.087	0.000	0.82		52.8	OK
29.002	TWD31	7	119.184	-0.164	0.000	0.41		70.9	OK
26.006	94	7	118.391	-0.475	0.000	0.37		283.4	OK
26.007	95	7	118.285	-0.470	0.000	0.38		290.8	OK
30.000	201	7	119.356	-0.085	0.000	0.52		44.0	OK
30.001	202	7	119.285	0.095	0.000	0.79		59.0	SURCHARGED
30.002	203	7	119.192	0.091	0.000	1.34		101.1	SURCHARGED
30.003	204	7	118.814	-0.169	0.000	0.57		119.2	OK
30.004	117	7	118.699	0.028	0.000	1.22		126.5	SURCHARGED
26.008	95A	7	118.218	-0.393	0.000	0.53		423.3	OK
26.009	96	7	117.995	-0.438	0.000	0.43		405.1	OK
26.010	97	8	117.557	-0.481	0.000	0.36		397.2	OK
31.000	121	7	117.366	-0.254	0.000	0.80		290.5	OK
32.000	TWD4	7	120.132	-0.129	0.000	0.37		18.4	OK
32.001	TWD5	7	119.967	-0.082	0.000	0.71		42.3	OK
33.000	TWD16	7	119.700	-0.011	0.000	0.99		64.4	OK
32.002	TWD6	7	119.584	-0.004	0.000	1.00		106.7	OK
34.000	TWD17	7	119.593	-0.114	0.000	0.48		25.0	OK
35.000	TWD18	7	119.516	-0.122	0.000	0.42		17.5	OK
32.003	TWD7	8	119.353	-0.087	0.000	0.92		153.2	OK
32.004	TWD8	8	119.004	0.021	0.000	0.81		165.2	SURCHARGED
32.005	TWD9	8	118.881	0.030	0.000	1.00		168.8	SURCHARGED
32.006	TWD10	8	118.753	-0.048	0.000	1.00		169.1	OK
36.000	TWD19	7	119.674	-0.047	0.000	0.97		66.4	OK
32.007	TWD11	11	117.728	0.007	0.000	1.61		242.9	SURCHARGED
37.000	TWD20	7	119.397	-0.089	0.000	0.66		25.1	OK
37.001	TWD21	7	119.174	-0.097	0.000	0.75		50.4	OK
37.002	TWD22	7	119.023	-0.043	0.000	0.98		66.2	OK
37.003	TWD23	8	118.738	-0.122	0.000	0.77		81.7	OK
37.004	TWD24	8	118.590	-0.196	0.000	0.44		93.4	OK
37.005	TWD25	8	118.106	-0.192	0.000	0.46		104.4	OK
32.008	TWD12	11	117.700	0.000	0.000	0.99		346.3	OK
38.000	TWD26	7	119.314	-0.136	0.000	0.33		32.9	OK
32.009	TWD13	8	117.615	0.000	0.000	0.80		346.8	OK
32.010	TWD14	10	117.547	0.000	0.000	0.79		326.4	OK
32.011	TWD15	11	117.463	-0.032	0.000	1.01		317.6	OK
26.011	98	8	116.996	-0.592	0.000	0.39		855.8	OK
26.012	99	10	116.652	-0.368	0.000	0.49		805.3	OK
26.013	100	10	116.607	-0.122	0.000	1.00		780.8	OK



M-EC		Page 113
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	17	115.106	1.974	0.000	2.53		657.0	SURCHARGED
1.025	24	13	113.972	1.046	0.000	2.48		633.2	SURCHARGED
1.026	25	12	113.128	0.339	0.000	0.99		631.2	SURCHARGED
39.000	79	7	121.708	-0.465	0.000	0.03		14.2	OK
39.001	80	7	121.339	-0.420	0.000	0.09		42.4	OK
39.002	81	7	120.791	-0.536	0.000	0.09		52.8	OK
40.000	130	11	121.062	-0.139	0.000	0.31		10.5	OK
41.000	BAR1	7	121.756	-0.049	0.000	0.78		22.6	OK
41.001	131	7	120.975	-0.199	0.000	0.45		42.3	OK
39.003	81A	7	120.656	-0.478	0.000	0.19		112.4	OK
42.000	133	11	120.710	-0.236	0.000	0.10		5.8	OK
39.004	82	7	120.418	-0.487	0.000	0.26		139.0	OK
39.005	83	8	120.332	-0.503	0.000	0.22		138.2	OK
43.000	BAR2	7	121.595	-0.034	0.000	0.94		29.3	OK
43.001	136	7	120.544	-0.148	0.000	0.67		49.4	OK
39.006	83A	8	120.233	-0.437	0.000	0.31		187.9	OK
44.000	206	6	120.857	0.000	0.000	0.25		26.0	OK
44.001	207	8	120.819	0.000	0.000	0.24		28.4	OK
44.002	208	8	120.781	0.004	0.000	0.31		42.1	SURCHARGED
44.003	209	10	120.704	0.000	0.000	0.50		46.5	OK
45.000	210	7	120.958	-0.127	0.000	0.39		17.7	OK
45.001	211	8	120.801	-0.141	0.000	0.49		32.2	OK
45.002	212	10	120.766	0.010	0.000	0.35		37.1	SURCHARGED
44.004	213	8	120.682	0.000	0.000	0.93		96.6	SURCHARGED
44.005	214	8	120.646	0.000	0.000	0.72		97.0	SURCHARGED
44.006	215	9	120.581	0.000	0.000	1.18		111.5	OK
44.007	138	9	120.437	-0.120	0.000	0.86		109.8	OK
39.007	84	8	120.149	-0.376	0.000	0.53		320.0	OK
46.000	BAR4	8	121.965	0.256	0.000	0.97		36.7	SURCHARGED
46.001	BAR5	8	121.748	0.260	0.000	1.37		49.0	SURCHARGED
47.000	BAR6	7	122.145	-0.006	0.000	0.94		16.0	OK
47.001	BAR7	7	121.899	0.028	0.000	1.00		36.6	SURCHARGED
47.002	BAR8	7	121.767	0.040	0.000	0.83		48.4	SURCHARGED
46.002	BAR9	8	121.528	0.149	0.000	1.73		106.8	SURCHARGED
46.003	BAR10	8	121.213	-0.088	0.000	0.82		134.3	OK
46.004	140	7	120.495	0.000	0.000	1.10		132.4	OK
39.008	85	8	120.098	-0.370	0.000	0.59		451.6	OK
39.009	86	8	119.960	-0.374	0.000	0.57		457.6	OK
48.000	BAR3	7	120.882	-0.066	0.000	0.60		19.7	OK
48.001	143	8	119.919	-0.255	0.000	0.39		43.8	OK
49.000	216	7	120.494	-0.176	0.000	0.36		61.7	OK
49.001	144	7	119.969	-0.226	0.000	0.49		65.5	OK
39.010	87	8	119.735	-0.417	0.000	0.56		532.9	OK
39.011	88	8	119.650	-0.357	0.000	0.61		582.7	OK
39.012	103	8	119.556	-0.295	0.000	0.63		606.9	OK
50.000	BAR11	8	121.620	0.175	0.000	1.01		17.4	SURCHARGED
50.001	BAR12	8	121.309	0.171	0.000	0.84		43.1	SURCHARGED
51.000	BAR13	8	121.179	0.211	0.000	0.26		8.2	SURCHARGED
50.002	BAR14	8	121.172	0.253	0.000	1.03		55.6	SURCHARGED

M-EC		Page 114
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		

Summary Wizard of 15 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	8	121.156	0.205	0.000	0.99		16.6	SURCHARGED
52.001	BAR16	8	120.941	0.215	0.000	0.64		28.2	SURCHARGED
50.003	BAR17	8	120.839	0.221	0.000	1.47		90.1	SURCHARGED
50.004	BAR18	8	120.671	0.130	0.000	1.56		98.6	SURCHARGED
50.005	BAR19	8	120.325	-0.124	0.000	0.63		109.6	OK
50.006	149	8	119.543	-0.182	0.000	0.65		110.0	OK
53.000	TWD1	7	120.482	-0.132	0.000	0.34		13.3	OK
54.000	TWD3	7	120.705	-0.177	0.000	0.10		8.7	OK
53.001	TWD2	7	120.134	-0.112	0.000	0.49		43.7	OK
39.013	104	8	119.460	-0.210	0.000	1.09		727.4	OK
39.014	104A	10	119.202	-0.433	0.000	0.63		709.0	OK
55.000	BAR20	8	121.820	0.327	0.000	1.30		22.7	SURCHARGED
55.001	BAR21	7	120.988	-0.065	0.000	0.81		43.9	OK
56.000	BAR22	7	120.771	0.166	0.000	1.06		38.5	SURCHARGED
56.001	BAR23	7	120.612	0.143	0.000	1.50		49.1	SURCHARGED
55.002	BAR24	7	120.484	0.070	0.000	1.16		94.5	SURCHARGED
55.003	BAR25	8	120.133	-0.061	0.000	1.00		106.8	OK
55.004	BAR26	8	119.908	-0.208	0.000	0.40		126.8	OK
39.015	105	10	119.023	-0.451	0.000	0.56		764.6	OK
39.016	106	10	118.862	-1.285	0.000	0.09		699.5	OK
39.017	107	11	116.159	-0.388	0.000	0.37		694.8	OK
1.027	26	11	112.433	-0.475	0.000	0.34		1289.2	OK
1.028	27	12	109.578	-0.169	0.000	0.62		1278.1	FLOOD RISK*
1.029	28	12	106.638	-0.553	0.000	0.26		1215.4	OK
1.030	29	13	97.690	-0.787	0.000	0.20		1173.2	OK
1.031	30	14	93.141	-0.241	0.000	0.55		1134.7	FLOOD RISK*
1.032	31	15	92.052	-0.198	0.000	0.67		1056.1	FLOOD RISK*
1.033	32	25	91.520	-0.603	0.000	0.32		1007.3	OK
1.034	33	46	90.262	-0.011	0.000	1.00		244.5	OK*
57.000	108	14	91.600	-0.286	0.000	0.62		1012.3	FLOOD RISK*
57.001	109	21	91.309	-0.577	0.000	0.36		697.2	OK
57.002	110	30	90.870	-1.016	0.000	0.18		440.0	OK
1.035	109	50	89.955	0.089	0.000	0.36		86.2	SURCHARGED*
1.036	34	28	86.650	0.000	0.000	0.66		54.5	SURCHARGED*

M-EC		Page 115
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow		
1.000	1	19	116.898	0.043	0.000	0.36	29.0	SURCHARGED	
1.001	2	19	116.895	0.186	0.000	0.43	37.7	SURCHARGED	
1.002	3	19	116.891	0.403	0.000	0.30	37.6	SURCHARGED	
1.003	4	19	116.888	0.541	0.000	0.61	108.5	SURCHARGED	
2.000	5	11	118.493	-0.182	0.000	0.33	37.8	OK	
2.001	6	11	118.368	-0.093	0.000	0.80	82.3	OK	
2.002	6	13	118.100	-0.113	0.000	0.70	94.5	OK	
2.003	8	19	117.305	-0.043	0.000	0.50	118.2	OK	
3.000	9.1	13	118.382	-0.043	0.000	0.93	48.8	OK	
3.001	9	20	117.334	0.189	0.000	0.60	48.3	SURCHARGED	
3.002	10	20	117.326	0.343	0.000	0.59	62.6	SURCHARGED	
3.003	11	20	117.321	0.439	0.000	0.69	121.2	SURCHARGED	
4.000	12	20	117.317	0.031	0.000	0.43	43.6	SURCHARGED	
3.004	13	20	117.313	0.553	0.000	0.50	156.2	SURCHARGED	
3.005	14	20	117.306	0.753	0.000	0.85	209.2	SURCHARGED	
3.006	15	19	117.299	0.834	0.000	0.90	201.3	SURCHARGED	
2.004	16	19	117.297	0.854	0.000	0.90	313.6	SURCHARGED	
2.005	17	19	117.290	0.937	0.000	0.81	336.5	SURCHARGED	
5.000	18	19	117.152	0.265	0.000	0.21	24.4	SURCHARGED	
2.006	19	19	117.150	0.971	0.000	0.81	336.4	SURCHARGED	
2.007	20	19	117.011	1.004	0.000	0.89	355.1	SURCHARGED	
1.004	21	19	116.879	1.031	0.000	1.31	456.0	SURCHARGED	

M-EC		Page 116
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	19	116.874	1.087	0.000	0.81		501.8	SURCHARGED
6.000	23	19	116.903	-0.027	0.000	0.78		35.0	OK
6.001	24	19	116.895	0.202	0.000	0.94		34.6	SURCHARGED
6.002	25	19	116.891	0.266	0.000	0.73		54.8	SURCHARGED
6.003	26	19	116.882	0.567	0.000	1.18		72.5	SURCHARGED
6.004	27	19	116.878	0.622	0.000	0.78		98.3	SURCHARGED
6.005	28	19	116.868	0.885	0.000	0.42		98.7	SURCHARGED
1.006	29	19	116.864	1.234	0.000	0.71		596.1	SURCHARGED
7.000	30	9	118.160	-0.100	0.000	0.59		23.1	OK
7.001	31	9	117.977	-0.118	0.000	0.45		53.2	OK
1.007	8	19	116.685	1.344	0.000	0.81		605.6	SURCHARGED
8.000	60	17	116.731	-0.125	0.000	0.41		15.7	OK
8.001	61	19	116.528	-0.156	0.000	0.17		18.1	OK
8.002	35	19	116.527	0.099	0.000	0.11		26.4	SURCHARGED
1.008	10	19	116.524	1.445	0.000	1.83		606.5	SURCHARGED
9.000	62	9	119.340	0.040	0.000	0.62		51.7	SURCHARGED
10.000	40	9	119.596	0.628	0.000	2.41		148.3	SURCHARGED
9.001	63	9	119.220	0.241	0.000	1.28		214.3	SURCHARGED
9.002	64	9	118.351	-0.167	0.000	0.58		265.2	OK
9.003	148	19	116.660	1.394	0.000	1.06		269.9	SURCHARGED
1.009	11	19	116.518	1.458	0.000	1.18		866.4	SURCHARGED
1.010	12	19	116.506	1.530	0.000	2.29		857.1	SURCHARGED
1.011	13	18	116.498	1.544	0.000	1.92		836.5	SURCHARGED
1.012	14	18	116.487	1.566	0.000	0.82		778.4	SURCHARGED
1.013	15	18	116.479	1.609	0.000	1.58		719.7	SURCHARGED
1.014	16	18	116.471	1.624	0.000	0.77		709.8	SURCHARGED
11.000	TWC16	9	117.758	-0.083	0.000	0.72		70.7	OK
11.001	TWC17	18	116.468	0.808	0.000	0.56		70.6	SURCHARGED
1.015	17	18	116.463	1.593	0.000	0.46		659.4	SURCHARGED
1.016	18	18	116.455	1.688	0.000	0.47		625.2	SURCHARGED
12.000	TWC1	10	117.937	0.136	0.000	0.57		21.1	SURCHARGED
12.001	TWC2	10	117.877	0.241	0.000	0.73		28.1	SURCHARGED
12.002	TWC3	10	117.733	0.363	0.000	1.55		53.5	SURCHARGED
12.003	TWC4	12	117.556	0.259	0.000	1.61		53.3	SURCHARGED
13.000	TWC5	9	118.716	0.426	0.000	0.90		34.2	SURCHARGED
13.001	TWC6	9	118.536	0.468	0.000	1.57		58.6	SURCHARGED
13.002	TWC7	9	118.115	0.217	0.000	1.02		72.8	SURCHARGED
12.004	TWC8	13	117.414	0.172	0.000	1.44		139.2	SURCHARGED
12.005	TWC9	13	117.256	0.088	0.000	1.71		151.4	SURCHARGED
12.006	TWC10	13	117.040	-0.080	0.000	0.97		156.5	OK
1.017	TWC11	18	116.447	1.780	0.000	0.51		746.8	SURCHARGED
1.018	19	18	116.439	1.846	0.000	0.36		744.6	SURCHARGED
14.000	TWC12	12	117.280	-0.129	0.000	0.38		14.2	OK
14.001	TWC13	13	117.098	-0.154	0.000	0.21		27.0	OK
14.002	TWC14	18	116.432	0.153	0.000	0.69		54.7	SURCHARGED
1.019	TWC15	18	116.431	2.103	0.000	0.58		728.4	SURCHARGED
15.000	65	13	117.291	-0.078	0.000	0.82		56.0	OK
16.000	136	9	118.074	-0.140	0.000	0.31		18.3	OK
16.001	137	11	117.773	-0.134	0.000	0.35		19.5	OK

M-EC		Page 117
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	12	117.528	-0.191	0.000	0.28		36.1	OK
15.001	66	13	117.175	-0.011	0.000	0.95		111.8	OK
15.002	67	15	117.049	0.005	0.000	1.08		122.8	SURCHARGED
17.000	9	13	117.331	-0.253	0.000	0.06		4.9	OK
17.001	75	13	117.239	-0.158	0.000	0.45		34.3	OK
17.002	76	15	116.948	-0.272	0.000	0.16		65.0	OK
15.003	68	16	116.914	-0.031	0.000	0.80		193.8	OK
15.004	69	16	116.817	0.000	0.000	0.66		208.8	OK
15.005	70	17	116.745	0.017	0.000	0.72		203.6	SURCHARGED
15.006	71	16	116.710	0.036	0.000	0.73		225.3	SURCHARGED
18.000	147	16	116.860	-0.111	0.000	0.30		11.6	OK
18.001	112	15	116.843	-0.004	0.000	0.52		27.2	OK
18.002	113	17	116.803	0.000	0.000	0.25		30.9	OK
19.000	115	12	117.328	-0.166	0.000	0.16		7.5	OK
19.001	116	13	117.088	-0.142	0.000	0.28		21.9	OK
18.003	77	17	116.750	0.000	0.000	0.39		48.9	OK
20.000	134	12	117.290	-0.142	0.000	0.29		25.0	OK
18.004	135	17	116.703	0.003	0.000	0.48		81.4	SURCHARGED
18.005	78	17	116.686	0.041	0.000	0.43		74.3	SURCHARGED
15.007	72	17	116.667	0.069	0.000	1.03		294.3	SURCHARGED
15.008	73	19	116.533	0.079	0.000	1.41		300.0	SURCHARGED
15.009	74	19	116.500	0.089	0.000	1.84		298.7	SURCHARGED
15.010	98	19	116.489	0.104	0.000	1.09		293.4	SURCHARGED
15.011	99	18	116.470	0.187	0.000	0.89		250.9	SURCHARGED
15.012	101	18	116.446	0.347	0.000	0.82		226.2	SURCHARGED
21.000	142	13	117.193	-0.096	0.000	0.62		28.5	OK
21.001	143	15	116.786	-0.081	0.000	0.72		42.9	OK
22.000	118	15	117.127	-0.179	0.000	0.06		2.0	OK
22.001	119	15	117.108	-0.112	0.000	0.44		13.9	OK
22.002	120	15	117.074	-0.087	0.000	0.67		42.0	OK
23.000	129	18	116.708	-0.169	0.000	0.28		22.5	OK
23.001	130	20	116.683	-0.059	0.000	0.25		25.8	OK
22.003	121	20	116.647	0.154	0.000	1.25		81.0	SURCHARGED
24.000	131	15	117.104	0.025	0.000	0.91		37.8	SURCHARGED
24.001	132	15	116.872	0.090	0.000	1.82		49.4	SURCHARGED
24.002	133	20	116.606	-0.134	0.000	0.45		57.0	OK
22.004	122	22	116.543	0.118	0.000	0.80		146.3	SURCHARGED
22.005	123	22	116.446	0.118	0.000	1.08		164.2	SURCHARGED
25.000	139	15	116.867	-0.020	0.000	0.97		26.5	OK
25.001	140	17	116.784	0.010	0.000	0.93		57.2	SURCHARGED
22.006	124	20	116.440	0.178	0.000	1.52		228.0	SURCHARGED
22.007	125	20	116.433	0.227	0.000	0.84		229.5	SURCHARGED
22.008	126	20	116.430	0.271	0.000	0.43		233.4	SURCHARGED
22.009	127	20	116.428	0.365	0.000	0.93		227.8	SURCHARGED
21.002	149	20	116.425	0.410	0.000	0.33		257.8	SURCHARGED
1.020	20	18	116.422	2.868	0.000	6.90		457.2	SURCHARGED
1.021	108	16	115.791	2.246	0.000	1.78		446.1	SURCHARGED
1.022	21	16	115.590	2.181	0.000	1.70		433.0	SURCHARGED
1.023	22	13	115.315	2.094	0.000	1.76		431.1	SURCHARGED

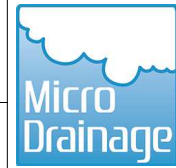
M-EC		Page 118
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	9	119.383	-0.555	0.000	0.07		53.4	OK
26.001	90	9	119.063	-0.544	0.000	0.08		63.5	OK
27.000	200	9	119.606	-0.210	0.000	0.20		30.5	OK
27.001	109	9	118.928	-0.351	0.000	0.24		34.4	OK
26.002	91	9	118.708	-0.540	0.000	0.17		97.7	OK
28.000	TWD27	9	119.463	-0.154	0.000	0.48		62.2	OK
26.003	91A	9	118.608	-0.554	0.000	0.22		170.6	OK
26.004	92	9	118.549	-0.515	0.000	0.30		192.4	OK
26.005	93	9	118.463	-0.540	0.000	0.25		193.3	OK
29.000	TWD29	9	119.492	-0.073	0.000	0.79		28.4	OK
29.001	TWD30	9	119.352	-0.106	0.000	0.73		47.2	OK
29.002	TWD31	9	119.173	-0.175	0.000	0.36		63.4	OK
26.006	94	9	118.368	-0.498	0.000	0.33		254.4	OK
26.007	95	9	118.262	-0.493	0.000	0.34		259.3	OK
30.000	201	9	119.300	-0.141	0.000	0.49		41.0	OK
30.001	202	9	119.242	0.052	0.000	0.71		53.1	SURCHARGED
30.002	203	9	119.148	0.047	0.000	1.19		89.5	SURCHARGED
30.003	204	9	118.800	-0.183	0.000	0.50		104.9	OK
30.004	117	9	118.671	0.000	0.000	1.05		109.3	OK
26.008	95A	9	118.193	-0.418	0.000	0.48		383.3	OK
26.009	96	9	117.972	-0.461	0.000	0.40		373.7	OK
26.010	97	9	117.542	-0.496	0.000	0.33		368.3	OK
31.000	121	9	117.321	-0.299	0.000	0.73		264.0	OK
32.000	TWD4	9	120.126	-0.135	0.000	0.34		16.6	OK
32.001	TWD5	8	119.955	-0.094	0.000	0.63		37.2	OK
33.000	TWD16	9	119.638	-0.073	0.000	0.92		59.7	OK
32.002	TWD6	9	119.507	-0.081	0.000	0.95		101.9	OK
34.000	TWD17	9	119.586	-0.121	0.000	0.44		22.6	OK
35.000	TWD18	9	119.510	-0.128	0.000	0.39		15.9	OK
32.003	TWD7	9	119.338	-0.102	0.000	0.87		143.8	OK
32.004	TWD8	9	118.902	-0.081	0.000	0.80		163.5	OK
32.005	TWD9	9	118.826	-0.025	0.000	1.00		169.0	OK
32.006	TWD10	9	118.747	-0.054	0.000	1.00		169.1	OK
36.000	TWD19	9	119.659	-0.062	0.000	0.88		60.1	OK
32.007	TWD11	10	117.728	0.007	0.000	1.55		234.2	SURCHARGED
37.000	TWD20	9	119.387	-0.099	0.000	0.60		22.6	OK
37.001	TWD21	9	119.155	-0.116	0.000	0.66		44.5	OK
37.002	TWD22	9	118.994	-0.072	0.000	0.90		60.6	OK
37.003	TWD23	9	118.723	-0.137	0.000	0.72		76.3	OK
37.004	TWD24	9	118.580	-0.206	0.000	0.42		87.5	OK
37.005	TWD25	9	118.096	-0.202	0.000	0.43		98.3	OK
32.008	TWD12	7	117.700	0.000	0.000	0.95		334.6	OK
38.000	TWD26	9	119.308	-0.142	0.000	0.30		29.6	OK
32.009	TWD13	9	117.615	0.000	0.000	0.78		342.1	OK
32.010	TWD14	7	117.547	0.000	0.000	0.79		323.3	OK
32.011	TWD15	10	117.478	-0.017	0.000	1.02		321.0	OK
26.011	98	10	116.991	-0.597	0.000	0.39		844.7	OK
26.012	99	11	116.639	-0.381	0.000	0.48		799.9	OK
26.013	100	11	116.595	-0.134	0.000	1.00		780.8	OK

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP

Micro Drainage

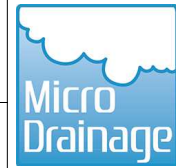
Network 2016.1

Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	13	115.181	2.049	0.000	2.54		657.7	SURCHARGED
1.025	24	12	113.973	1.047	0.000	2.49		637.4	SURCHARGED
1.026	25	11	113.134	0.345	0.000	1.00		637.9	SURCHARGED
39.000	79	9	121.706	-0.467	0.000	0.03		12.8	OK
39.001	80	8	121.331	-0.428	0.000	0.08		36.4	OK
39.002	81	8	120.782	-0.545	0.000	0.08		45.3	OK
40.000	130	10	121.063	-0.138	0.000	0.32		10.8	OK
41.000	BAR1	9	121.748	-0.057	0.000	0.71		20.3	OK
41.001	131	8	120.963	-0.211	0.000	0.39		36.9	OK
39.003	81A	9	120.642	-0.492	0.000	0.16		99.8	OK
42.000	133	10	120.711	-0.235	0.000	0.10		5.9	OK
39.004	82	9	120.400	-0.505	0.000	0.23		124.6	OK
39.005	83	9	120.317	-0.518	0.000	0.19		122.3	OK
43.000	BAR2	9	121.585	-0.044	0.000	0.85		26.4	OK
43.001	136	8	120.526	-0.166	0.000	0.59		43.3	OK
39.006	83A	9	120.210	-0.460	0.000	0.28		172.3	OK
44.000	206	11	120.857	0.000	0.000	0.22		23.6	OK
44.001	207	6	120.819	0.000	0.000	0.22		26.0	OK
44.002	208	11	120.776	0.000	0.000	0.29		39.6	OK
44.003	209	8	120.706	0.002	0.000	0.50		45.7	SURCHARGED
45.000	210	9	120.952	-0.133	0.000	0.35		16.0	OK
45.001	211	11	120.794	-0.148	0.000	0.44		28.9	OK
45.002	212	11	120.766	0.010	0.000	0.33		35.3	SURCHARGED
44.004	213	10	120.682	0.000	0.000	0.85		88.6	OK
44.005	214	9	120.645	0.000	0.000	0.66		89.2	OK
44.006	215	11	120.581	0.000	0.000	1.07		101.0	OK
44.007	138	11	120.420	-0.137	0.000	0.81		103.0	OK
39.007	84	9	120.124	-0.401	0.000	0.49		291.4	OK
46.000	BAR4	9	121.848	0.139	0.000	0.89		33.4	SURCHARGED
46.001	BAR5	9	121.672	0.184	0.000	1.27		45.4	SURCHARGED
47.000	BAR6	9	122.111	-0.040	0.000	0.88		15.0	OK
47.001	BAR7	9	121.822	-0.049	0.000	0.94		34.6	OK
47.002	BAR8	9	121.701	-0.026	0.000	0.78		45.5	OK
46.002	BAR9	9	121.490	0.111	0.000	1.61		99.1	SURCHARGED
46.003	BAR10	9	121.201	-0.100	0.000	0.76		124.1	OK
46.004	140	5	120.495	0.000	0.000	1.01		121.3	OK
39.008	85	9	120.074	-0.394	0.000	0.54		411.7	OK
39.009	86	9	119.939	-0.395	0.000	0.53		424.7	OK
48.000	BAR3	9	120.876	-0.072	0.000	0.54		17.7	OK
48.001	143	9	119.906	-0.268	0.000	0.34		37.9	OK
49.000	216	9	120.486	-0.184	0.000	0.32		55.5	OK
49.001	144	9	119.954	-0.241	0.000	0.44		59.1	OK
39.010	87	9	119.715	-0.437	0.000	0.52		501.6	OK
39.011	88	10	119.638	-0.369	0.000	0.59		566.9	OK
39.012	103	10	119.549	-0.302	0.000	0.62		592.0	OK
50.000	BAR11	9	121.479	0.034	0.000	0.98		17.0	SURCHARGED
50.001	BAR12	9	121.196	0.058	0.000	0.79		40.7	SURCHARGED
51.000	BAR13	9	121.080	0.112	0.000	0.22		6.8	SURCHARGED
50.002	BAR14	9	121.073	0.154	0.000	0.98		52.8	SURCHARGED

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP


Micro Drainage

Network 2016.1

Summary Wizard of 30 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	9	121.057	0.106	0.000	0.90		15.2	SURCHARGED
52.001	BAR16	9	120.869	0.143	0.000	0.60		26.4	SURCHARGED
50.003	BAR17	9	120.782	0.164	0.000	1.37		84.1	SURCHARGED
50.004	BAR18	9	120.638	0.097	0.000	1.46		92.4	SURCHARGED
50.005	BAR19	9	120.316	-0.133	0.000	0.59		103.7	OK
50.006	149	9	119.531	-0.194	0.000	0.61		103.4	OK
53.000	TWD1	9	120.476	-0.138	0.000	0.31		12.0	OK
54.000	TWD3	9	120.703	-0.179	0.000	0.09		7.8	OK
53.001	TWD2	9	120.125	-0.121	0.000	0.43		38.8	OK
39.013	104	10	119.453	-0.217	0.000	1.07		719.2	OK
39.014	104A	11	119.199	-0.436	0.000	0.62		701.1	OK
55.000	BAR20	9	121.700	0.207	0.000	1.20		21.0	SURCHARGED
55.001	BAR21	9	120.975	-0.078	0.000	0.73		39.8	OK
56.000	BAR22	9	120.671	0.066	0.000	0.99		36.3	SURCHARGED
56.001	BAR23	9	120.536	0.067	0.000	1.39		45.5	SURCHARGED
55.002	BAR24	9	120.431	0.017	0.000	1.06		86.3	SURCHARGED
55.003	BAR25	9	120.107	-0.087	0.000	0.93		99.7	OK
55.004	BAR26	9	119.902	-0.214	0.000	0.38		118.3	OK
39.015	105	11	119.022	-0.452	0.000	0.56		762.8	OK
39.016	106	11	118.860	-1.287	0.000	0.10		710.1	OK
39.017	107	10	116.165	-0.382	0.000	0.38		702.9	OK
1.027	26	10	112.436	-0.472	0.000	0.35		1316.9	OK
1.028	27	11	109.585	-0.162	0.000	0.63		1308.9	FLOOD RISK*
1.029	28	11	106.646	-0.545	0.000	0.27		1260.3	OK
1.030	29	11	97.703	-0.774	0.000	0.21		1229.4	OK
1.031	30	11	93.158	-0.224	0.000	0.58		1197.1	FLOOD RISK*
1.032	31	12	92.086	-0.164	0.000	0.72		1136.5	FLOOD RISK*
1.033	32	22	91.556	-0.567	0.000	0.35		1096.0	OK
1.034	33	38	90.310	0.037	0.000	1.08		263.3	SURCHARGED*
57.000	108	13	91.611	-0.275	0.000	0.63		1028.4	FLOOD RISK*
57.001	109	20	91.345	-0.541	0.000	0.39		757.2	OK
57.002	110	26	90.945	-0.941	0.000	0.21		527.9	OK
1.035	109	48	89.997	0.131	0.000	0.37		89.2	SURCHARGED*
1.036	34	33	86.650	0.000	0.000	0.66		54.8	SURCHARGED*



M-EC		Page 121
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	17	116.962	0.107	0.000	0.26	20.5	SURCHARGED
1.001	2	17	116.959	0.250	0.000	0.31	26.8	SURCHARGED
1.002	3	17	116.954	0.466	0.000	0.20	25.1	SURCHARGED
1.003	4	17	116.951	0.604	0.000	0.43	76.5	SURCHARGED
2.000	5	13	118.474	-0.201	0.000	0.24	27.0	OK
2.001	6	13	118.326	-0.135	0.000	0.57	58.5	OK
2.002	6	15	118.065	-0.148	0.000	0.48	65.3	OK
2.003	8	17	117.371	0.023	0.000	0.34	81.8	SURCHARGED
3.000	9.1	15	118.343	-0.082	0.000	0.69	36.4	OK
3.001	9	17	117.558	0.413	0.000	0.45	36.2	SURCHARGED
3.002	10	17	117.544	0.561	0.000	0.45	47.6	SURCHARGED
3.003	11	17	117.534	0.652	0.000	0.50	88.5	SURCHARGED
4.000	12	18	117.452	0.166	0.000	0.31	31.2	SURCHARGED
3.004	13	18	117.447	0.687	0.000	0.36	111.7	SURCHARGED
3.005	14	18	117.391	0.838	0.000	0.62	153.6	SURCHARGED
3.006	15	17	117.365	0.900	0.000	0.67	150.8	SURCHARGED
2.004	16	17	117.362	0.919	0.000	0.65	227.2	SURCHARGED
2.005	17	17	117.353	1.000	0.000	0.61	252.9	SURCHARGED
5.000	18	17	117.217	0.330	0.000	0.15	17.5	SURCHARGED
2.006	19	17	117.214	1.035	0.000	0.64	266.6	SURCHARGED
2.007	20	17	117.075	1.068	0.000	0.67	267.7	SURCHARGED
1.004	21	17	116.940	1.092	0.000	0.93	322.5	SURCHARGED

M-EC		Page 122
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	17	116.934	1.147	0.000	0.59		367.7	SURCHARGED
6.000	23	17	116.967	0.037	0.000	0.55		24.6	SURCHARGED
6.001	24	17	116.958	0.265	0.000	0.68		24.9	SURCHARGED
6.002	25	17	116.954	0.329	0.000	0.54		40.5	SURCHARGED
6.003	26	17	116.944	0.629	0.000	0.86		53.0	SURCHARGED
6.004	27	17	116.939	0.683	0.000	0.60		75.9	SURCHARGED
6.005	28	17	116.927	0.944	0.000	0.29		68.0	SURCHARGED
1.006	29	17	116.922	1.292	0.000	0.54		446.7	SURCHARGED
7.000	30	12	118.138	-0.122	0.000	0.42		16.3	OK
7.001	31	13	117.959	-0.136	0.000	0.32		37.9	OK
1.007	8	17	116.742	1.401	0.000	0.56		421.8	SURCHARGED
8.000	60	19	116.715	-0.141	0.000	0.29		11.0	OK
8.001	61	17	116.584	-0.100	0.000	0.12		12.7	OK
8.002	35	17	116.582	0.154	0.000	0.07		18.5	SURCHARGED
1.008	10	17	116.579	1.500	0.000	1.13		374.6	SURCHARGED
9.000	62	12	119.151	-0.149	0.000	0.49		40.3	OK
10.000	40	12	119.184	0.216	0.000	1.87		115.2	SURCHARGED
9.001	63	12	118.960	-0.019	0.000	1.00		167.7	OK
9.002	64	12	118.325	-0.193	0.000	0.46		213.0	OK
9.003	148	17	116.716	1.450	0.000	0.81		207.5	SURCHARGED
1.009	11	17	116.572	1.512	0.000	0.76		556.3	SURCHARGED
1.010	12	17	116.558	1.582	0.000	1.49		556.0	SURCHARGED
1.011	13	17	116.549	1.595	0.000	1.29		560.0	SURCHARGED
1.012	14	17	116.537	1.616	0.000	0.54		510.9	SURCHARGED
1.013	15	17	116.529	1.659	0.000	0.97		444.9	SURCHARGED
1.014	16	17	116.521	1.674	0.000	0.49		453.4	SURCHARGED
11.000	TWC16	13	117.732	-0.109	0.000	0.51		49.8	OK
11.001	TWC17	17	116.520	0.860	0.000	0.39		49.0	SURCHARGED
1.015	17	17	116.512	1.642	0.000	0.33		468.3	SURCHARGED
1.016	18	17	116.503	1.736	0.000	0.33		437.5	SURCHARGED
12.000	TWC1	13	117.683	-0.118	0.000	0.44		16.5	OK
12.001	TWC2	14	117.623	-0.013	0.000	0.59		22.5	OK
12.002	TWC3	14	117.532	0.162	0.000	1.25		43.0	SURCHARGED
12.003	TWC4	15	117.414	0.117	0.000	1.31		43.2	SURCHARGED
13.000	TWC5	12	118.307	0.017	0.000	0.73		27.7	SURCHARGED
13.001	TWC6	12	118.187	0.119	0.000	1.32		49.2	SURCHARGED
13.002	TWC7	13	117.836	-0.062	0.000	0.87		62.0	OK
12.004	TWC8	15	117.319	0.077	0.000	1.20		115.8	SURCHARGED
12.005	TWC9	15	117.209	0.041	0.000	1.43		126.3	SURCHARGED
12.006	TWC10	15	117.005	-0.115	0.000	0.80		129.5	OK
1.017	TWC11	17	116.495	1.828	0.000	0.38		555.7	SURCHARGED
1.018	19	17	116.486	1.893	0.000	0.27		555.3	SURCHARGED
14.000	TWC12	14	117.265	-0.144	0.000	0.27		10.0	OK
14.001	TWC13	15	117.086	-0.166	0.000	0.15		19.2	OK
14.002	TWC14	17	116.480	0.201	0.000	0.50		39.1	SURCHARGED
1.019	TWC15	17	116.477	2.149	0.000	0.45		567.4	SURCHARGED
15.000	65	15	117.238	-0.131	0.000	0.59		40.5	OK
16.000	136	13	118.061	-0.153	0.000	0.22		13.1	OK
16.001	137	13	117.758	-0.149	0.000	0.24		13.7	OK

M-EC		Page 123
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	14	117.511	-0.208	0.000	0.20		25.6	OK
15.001	66	17	117.059	-0.127	0.000	0.75		88.2	OK
15.002	67	20	116.951	-0.093	0.000	0.87		99.0	OK
17.000	9	15	117.324	-0.260	0.000	0.04		3.5	OK
17.001	75	15	117.215	-0.182	0.000	0.31		23.6	OK
17.002	76	21	116.912	-0.308	0.000	0.11		45.9	OK
15.003	68	21	116.910	-0.035	0.000	0.62		149.8	OK
15.004	69	17	116.817	0.000	0.000	0.51		161.4	OK
15.005	70	19	116.728	0.000	0.000	0.57		160.0	OK
15.006	71	21	116.674	0.000	0.000	0.59		182.6	OK
18.000	147	18	116.840	-0.131	0.000	0.21		8.2	OK
18.001	112	18	116.828	-0.019	0.000	0.37		19.3	OK
18.002	113	16	116.803	0.000	0.000	0.19		23.3	OK
19.000	115	14	117.319	-0.175	0.000	0.11		5.3	OK
19.001	116	15	117.075	-0.155	0.000	0.20		15.8	OK
18.003	77	16	116.753	0.003	0.000	0.30		37.2	SURCHARGED
20.000	134	15	117.277	-0.155	0.000	0.21		17.9	OK
18.004	135	19	116.700	0.000	0.000	0.36		61.1	OK
18.005	78	21	116.645	0.000	0.000	0.33		57.4	OK
15.007	72	19	116.598	0.000	0.000	0.82		233.5	OK
15.008	73	18	116.549	0.095	0.000	1.16		246.5	SURCHARGED
15.009	74	18	116.536	0.125	0.000	1.53		247.6	SURCHARGED
15.010	98	17	116.526	0.141	0.000	0.89		238.2	SURCHARGED
15.011	99	17	116.509	0.226	0.000	0.74		210.3	SURCHARGED
15.012	101	17	116.488	0.389	0.000	0.72		200.2	SURCHARGED
21.000	142	15	117.171	-0.118	0.000	0.44		20.4	OK
21.001	143	18	116.760	-0.107	0.000	0.52		31.1	OK
22.000	118	17	117.115	-0.191	0.000	0.04		1.4	OK
22.001	119	17	117.086	-0.134	0.000	0.31		9.8	OK
22.002	120	17	117.048	-0.113	0.000	0.47		29.2	OK
23.000	129	21	116.669	-0.208	0.000	0.20		16.4	OK
23.001	130	21	116.602	-0.140	0.000	0.20		19.8	OK
22.003	121	21	116.598	0.104	0.000	0.95		61.7	SURCHARGED
24.000	131	17	116.991	-0.088	0.000	0.66		27.6	OK
24.001	132	19	116.811	0.028	0.000	1.35		36.7	SURCHARGED
24.002	133	21	116.600	-0.140	0.000	0.34		43.1	OK
22.004	122	19	116.592	0.168	0.000	0.56		101.3	SURCHARGED
22.005	123	18	116.585	0.257	0.000	0.75		114.2	SURCHARGED
25.000	139	18	116.804	-0.082	0.000	0.71		19.2	OK
25.001	140	19	116.694	-0.080	0.000	0.70		43.1	OK
22.006	124	18	116.577	0.315	0.000	1.08		162.8	SURCHARGED
22.007	125	18	116.552	0.346	0.000	0.59		160.0	SURCHARGED
22.008	126	18	116.546	0.387	0.000	0.31		167.3	SURCHARGED
22.009	127	18	116.541	0.478	0.000	0.64		158.4	SURCHARGED
21.002	149	18	116.537	0.522	0.000	0.23		184.2	SURCHARGED
1.020	20	17	116.467	2.913	0.000	6.60		437.2	SURCHARGED
1.021	108	15	115.803	2.258	0.000	1.73		433.2	SURCHARGED
1.022	21	15	115.595	2.186	0.000	1.68		428.0	SURCHARGED
1.023	22	14	115.310	2.089	0.000	1.75		428.6	SURCHARGED

M-EC		Page 124
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	12	119.363	-0.575	0.000	0.05		37.8	OK
26.001	90	12	119.040	-0.567	0.000	0.06		44.5	OK
27.000	200	12	119.591	-0.225	0.000	0.14		21.8	OK
27.001	109	12	118.901	-0.378	0.000	0.17		24.2	OK
26.002	91	12	118.676	-0.572	0.000	0.12		69.0	OK
28.000	TWD27	12	119.439	-0.178	0.000	0.34		44.4	OK
26.003	91A	12	118.564	-0.598	0.000	0.16		121.8	OK
26.004	92	12	118.501	-0.563	0.000	0.22		139.6	OK
26.005	93	12	118.416	-0.587	0.000	0.18		140.3	OK
29.000	TWD29	12	119.463	-0.102	0.000	0.56		20.0	OK
29.001	TWD30	12	119.316	-0.142	0.000	0.52		33.3	OK
29.002	TWD31	12	119.154	-0.194	0.000	0.26		44.5	OK
26.006	94	12	118.314	-0.552	0.000	0.24		186.4	OK
26.007	95	12	118.207	-0.548	0.000	0.25		190.1	OK
30.000	201	12	119.265	-0.176	0.000	0.35		29.1	OK
30.001	202	12	119.067	-0.123	0.000	0.54		40.1	OK
30.002	203	12	119.035	-0.066	0.000	0.92		69.0	OK
30.003	204	12	118.774	-0.209	0.000	0.39		81.4	OK
30.004	117	12	118.566	-0.105	0.000	0.84		87.6	OK
26.008	95A	12	118.130	-0.481	0.000	0.36		287.7	OK
26.009	96	12	117.923	-0.510	0.000	0.31		287.6	OK
26.010	97	12	117.495	-0.543	0.000	0.25		283.2	OK
31.000	121	12	117.224	-0.396	0.000	0.51		186.1	OK
32.000	TWD4	12	120.111	-0.150	0.000	0.24		11.8	OK
32.001	TWD5	12	119.931	-0.118	0.000	0.44		26.2	OK
33.000	TWD16	12	119.592	-0.119	0.000	0.65		42.5	OK
32.002	TWD6	12	119.449	-0.139	0.000	0.69		74.4	OK
34.000	TWD17	12	119.569	-0.138	0.000	0.31		16.2	OK
35.000	TWD18	12	119.494	-0.144	0.000	0.27		11.2	OK
32.003	TWD7	12	119.285	-0.155	0.000	0.64		106.7	OK
32.004	TWD8	12	118.796	-0.187	0.000	0.63		130.0	OK
32.005	TWD9	12	118.715	-0.136	0.000	0.81		137.3	OK
32.006	TWD10	12	118.667	-0.134	0.000	0.81		137.7	OK
36.000	TWD19	12	119.627	-0.094	0.000	0.62		42.2	OK
32.007	TWD11	12	117.721	0.000	0.000	1.22		184.5	OK
37.000	TWD20	12	119.365	-0.121	0.000	0.43		16.2	OK
37.001	TWD21	12	119.122	-0.149	0.000	0.48		32.5	OK
37.002	TWD22	12	118.951	-0.115	0.000	0.68		45.7	OK
37.003	TWD23	12	118.685	-0.175	0.000	0.55		58.8	OK
37.004	TWD24	12	118.558	-0.228	0.000	0.32		68.2	OK
37.005	TWD25	12	118.074	-0.224	0.000	0.34		77.0	OK
32.008	TWD12	12	117.525	-0.175	0.000	0.77		269.0	OK
38.000	TWD26	12	119.296	-0.154	0.000	0.21		21.2	OK
32.009	TWD13	12	117.432	-0.183	0.000	0.66		289.5	OK
32.010	TWD14	12	117.377	-0.170	0.000	0.70		289.6	OK
32.011	TWD15	12	117.330	-0.165	0.000	0.96		299.8	OK
26.011	98	12	116.956	-0.632	0.000	0.33		723.1	OK
26.012	99	13	116.523	-0.497	0.000	0.43		715.9	OK
26.013	100	13	116.462	-0.267	0.000	0.91		709.4	OK

M-EC		Page 125
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	14	115.173	2.041	0.000	2.51	649.8	SURCHARGED	
1.025	24	16	113.934	1.008	0.000	2.49	637.7	SURCHARGED	
1.026	25	15	113.098	0.309	0.000	1.00	638.1	SURCHARGED	
39.000	79	12	121.698	-0.475	0.000	0.02	9.0	OK	
39.001	80	12	121.313	-0.446	0.000	0.05	25.9	OK	
39.002	81	12	120.758	-0.569	0.000	0.06	31.9	OK	
40.000	130	12	121.056	-0.145	0.000	0.27	9.2	OK	
41.000	BAR1	12	121.731	-0.074	0.000	0.50	14.5	OK	
41.001	131	12	120.935	-0.239	0.000	0.28	26.3	OK	
39.003	81A	12	120.615	-0.519	0.000	0.12	70.2	OK	
42.000	133	12	120.706	-0.240	0.000	0.09	5.0	OK	
39.004	82	12	120.365	-0.540	0.000	0.17	89.1	OK	
39.005	83	12	120.278	-0.557	0.000	0.14	90.2	OK	
43.000	BAR2	12	121.564	-0.065	0.000	0.60	18.9	OK	
43.001	136	12	120.488	-0.204	0.000	0.42	30.7	OK	
39.006	83A	12	120.165	-0.505	0.000	0.21	127.4	OK	
44.000	206	13	120.671	-0.186	0.000	0.17	18.2	OK	
44.001	207	13	120.661	-0.158	0.000	0.17	20.3	OK	
44.002	208	13	120.646	-0.131	0.000	0.25	34.1	OK	
44.003	209	13	120.605	-0.099	0.000	0.39	36.2	OK	
45.000	210	12	120.937	-0.148	0.000	0.25	11.4	OK	
45.001	211	12	120.760	-0.182	0.000	0.31	20.6	OK	
45.002	212	13	120.610	-0.146	0.000	0.27	28.6	OK	
44.004	213	13	120.592	-0.090	0.000	0.76	78.7	OK	
44.005	214	13	120.564	-0.081	0.000	0.61	81.4	OK	
44.006	215	13	120.511	-0.069	0.000	1.00	94.5	OK	
44.007	138	13	120.396	-0.161	0.000	0.74	94.5	OK	
39.007	84	12	120.078	-0.447	0.000	0.40	239.3	OK	
46.000	BAR4	12	121.627	-0.082	0.000	0.69	26.1	OK	
46.001	BAR5	12	121.520	0.032	0.000	1.00	36.0	SURCHARGED	
47.000	BAR6	12	122.089	-0.062	0.000	0.62	10.6	OK	
47.001	BAR7	12	121.785	-0.086	0.000	0.66	24.2	OK	
47.002	BAR8	12	121.630	-0.097	0.000	0.58	34.0	OK	
46.002	BAR9	12	121.410	0.031	0.000	1.26	77.6	SURCHARGED	
46.003	BAR10	12	121.169	-0.132	0.000	0.60	97.4	OK	
46.004	140	12	120.352	-0.143	0.000	0.81	97.3	OK	
39.008	85	12	120.027	-0.441	0.000	0.43	332.8	OK	
39.009	86	12	119.893	-0.441	0.000	0.43	348.4	OK	
48.000	BAR3	12	120.863	-0.085	0.000	0.38	12.7	OK	
48.001	143	12	119.875	-0.299	0.000	0.24	27.1	OK	
49.000	216	12	120.468	-0.202	0.000	0.23	39.7	OK	
49.001	144	12	119.920	-0.275	0.000	0.31	41.6	OK	
39.010	87	12	119.665	-0.487	0.000	0.43	408.8	OK	
39.011	88	12	119.572	-0.435	0.000	0.49	467.3	OK	
39.012	103	12	119.473	-0.378	0.000	0.52	499.6	OK	
50.000	BAR11	12	121.394	-0.051	0.000	0.74	12.9	OK	
50.001	BAR12	12	121.045	-0.093	0.000	0.62	31.8	OK	
51.000	BAR13	12	120.870	-0.098	0.000	0.16	5.1	OK	
50.002	BAR14	12	120.865	-0.054	0.000	0.81	43.4	OK	

M-EC		Page 126
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	12	120.898	-0.053	0.000	0.72		12.0	OK
52.001	BAR16	12	120.698	-0.028	0.000	0.48		21.2	OK
50.003	BAR17	12	120.665	0.047	0.000	1.12		69.1	SURCHARGED
50.004	BAR18	12	120.570	0.029	0.000	1.20		76.0	SURCHARGED
50.005	BAR19	12	120.297	-0.152	0.000	0.48		84.9	OK
50.006	149	12	119.502	-0.223	0.000	0.50		84.3	OK
53.000	TWD1	12	120.463	-0.151	0.000	0.23		8.8	OK
54.000	TWD3	12	120.695	-0.187	0.000	0.07		5.6	OK
53.001	TWD2	12	120.108	-0.138	0.000	0.31		27.6	OK
39.013	104	12	119.374	-0.296	0.000	0.90		601.7	OK
39.014	104A	13	119.147	-0.488	0.000	0.52		593.2	OK
55.000	BAR20	12	121.461	-0.032	0.000	0.95		16.6	OK
55.001	BAR21	12	120.954	-0.099	0.000	0.57		31.0	OK
56.000	BAR22	12	120.553	-0.052	0.000	0.72		26.4	OK
56.001	BAR23	12	120.483	0.014	0.000	1.00		32.8	SURCHARGED
55.002	BAR24	12	120.322	-0.092	0.000	0.81		66.3	OK
55.003	BAR25	12	120.059	-0.135	0.000	0.73		78.2	OK
55.004	BAR26	12	119.881	-0.235	0.000	0.30		93.2	OK
39.015	105	13	118.973	-0.501	0.000	0.48		652.7	OK
39.016	106	13	118.815	-1.332	0.000	0.08		620.6	OK
39.017	107	13	116.126	-0.421	0.000	0.33		623.0	OK
1.027	26	13	112.411	-0.497	0.000	0.33		1238.4	OK
1.028	27	13	109.567	-0.180	0.000	0.60		1240.0	FLOOD RISK*
1.029	28	13	106.628	-0.563	0.000	0.26		1216.8	OK
1.030	29	12	97.690	-0.787	0.000	0.20		1199.3	OK
1.031	30	12	93.149	-0.233	0.000	0.57		1176.4	FLOOD RISK*
1.032	31	13	92.085	-0.165	0.000	0.72		1136.3	FLOOD RISK*
1.033	32	21	91.560	-0.563	0.000	0.35		1108.3	OK
1.034	33	28	90.617	0.344	0.000	1.09		267.0	SURCHARGED*
57.000	108	18	91.525	-0.361	0.000	0.54		874.7	OK
57.001	109	22	91.293	-0.593	0.000	0.36		699.2	OK
57.002	110	25	90.949	-0.937	0.000	0.22		533.0	OK
1.035	109	28	90.380	0.514	0.000	0.34		81.5	SURCHARGED*
1.036	34	32	86.650	0.000	0.000	0.69		57.6	SURCHARGED*

M-EC		Page 127
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		

Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
1.000	1	20	116.855	0.000	0.000	0.17	13.4	OK	
1.001	2	20	116.850	0.141	0.000	0.20	17.3	SURCHARGED	
1.002	3	20	116.844	0.356	0.000	0.14	17.2	SURCHARGED	
1.003	4	20	116.841	0.494	0.000	0.26	47.0	SURCHARGED	
2.000	5	17	118.453	-0.222	0.000	0.15	17.4	OK	
2.001	6	17	118.285	-0.176	0.000	0.36	37.1	OK	
2.002	6	17	118.028	-0.185	0.000	0.31	42.4	OK	
2.003	8	20	117.267	-0.081	0.000	0.22	53.1	OK	
3.000	9.1	18	118.308	-0.117	0.000	0.45	23.8	OK	
3.001	9	19	117.388	0.243	0.000	0.29	23.7	SURCHARGED	
3.002	10	19	117.377	0.394	0.000	0.30	31.6	SURCHARGED	
3.003	11	19	117.369	0.487	0.000	0.35	61.0	SURCHARGED	
4.000	12	19	117.364	0.078	0.000	0.20	20.2	SURCHARGED	
3.004	13	19	117.360	0.600	0.000	0.26	80.2	SURCHARGED	
3.005	14	19	117.348	0.795	0.000	0.41	101.0	SURCHARGED	
3.006	15	20	117.252	0.787	0.000	0.43	96.6	SURCHARGED	
2.004	16	20	117.250	0.807	0.000	0.43	150.8	SURCHARGED	
2.005	17	20	117.242	0.889	0.000	0.38	160.8	SURCHARGED	
5.000	18	20	117.103	0.216	0.000	0.10	11.3	SURCHARGED	
2.006	19	20	117.101	0.922	0.000	0.41	171.1	SURCHARGED	
2.007	20	20	116.961	0.954	0.000	0.44	175.6	SURCHARGED	
1.004	21	20	116.828	0.980	0.000	0.62	215.7	SURCHARGED	

M-EC		Page 128
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	20	116.822	1.035	0.000	0.39		244.8	SURCHARGED
6.000	23	22	116.862	-0.068	0.000	0.36		16.2	OK
6.001	24	20	116.851	0.158	0.000	0.44		16.1	SURCHARGED
6.002	25	20	116.846	0.221	0.000	0.35		26.1	SURCHARGED
6.003	26	20	116.834	0.519	0.000	0.54		33.4	SURCHARGED
6.004	27	20	116.829	0.573	0.000	0.40		49.9	SURCHARGED
6.005	28	20	116.816	0.833	0.000	0.19		43.5	SURCHARGED
1.006	29	20	116.810	1.180	0.000	0.36		299.1	SURCHARGED
7.000	30	17	118.115	-0.145	0.000	0.27		10.7	OK
7.001	31	16	117.939	-0.156	0.000	0.20		24.1	OK
1.007	8	20	116.633	1.292	0.000	0.40		296.2	SURCHARGED
8.000	60	21	116.697	-0.159	0.000	0.19		7.2	OK
8.001	61	20	116.481	-0.203	0.000	0.08		8.3	OK
8.002	35	20	116.478	0.050	0.000	0.05		12.0	SURCHARGED
1.008	10	20	116.475	1.396	0.000	0.81		268.8	SURCHARGED
9.000	62	17	119.116	-0.184	0.000	0.32		26.2	OK
10.000	40	17	118.992	0.024	0.000	1.26		77.3	SURCHARGED
9.001	63	16	118.832	-0.147	0.000	0.67		113.0	OK
9.002	64	16	118.287	-0.231	0.000	0.31		143.4	OK
9.003	148	20	116.622	1.356	0.000	0.51		131.3	SURCHARGED
1.009	11	20	116.467	1.407	0.000	0.54		396.8	SURCHARGED
1.010	12	20	116.452	1.476	0.000	1.00		373.8	SURCHARGED
1.011	13	20	116.442	1.488	0.000	0.84		367.8	SURCHARGED
1.012	14	20	116.430	1.509	0.000	0.36		338.3	SURCHARGED
1.013	15	20	116.422	1.552	0.000	0.66		300.4	SURCHARGED
1.014	16	21	116.415	1.568	0.000	0.31		288.1	SURCHARGED
11.000	TWC16	17	117.706	-0.135	0.000	0.33		32.7	OK
11.001	TWC17	20	116.414	0.754	0.000	0.24		30.1	SURCHARGED
1.015	17	21	116.406	1.536	0.000	0.21		300.0	SURCHARGED
1.016	18	21	116.398	1.631	0.000	0.23		310.3	SURCHARGED
12.000	TWC1	18	117.659	-0.142	0.000	0.29		10.8	OK
12.001	TWC2	17	117.511	-0.125	0.000	0.41		15.5	OK
12.002	TWC3	17	117.313	-0.057	0.000	0.90		31.0	OK
12.003	TWC4	17	117.245	-0.052	0.000	0.94		31.0	OK
13.000	TWC5	17	118.177	-0.113	0.000	0.49		18.6	OK
13.001	TWC6	16	118.011	-0.057	0.000	0.90		33.5	OK
13.002	TWC7	16	117.799	-0.099	0.000	0.59		42.3	OK
12.004	TWC8	17	117.166	-0.076	0.000	0.84		81.1	OK
12.005	TWC9	17	117.110	-0.058	0.000	1.00		88.1	OK
12.006	TWC10	17	116.947	-0.173	0.000	0.56		91.0	OK
1.017	TWC11	21	116.390	1.723	0.000	0.26		372.4	SURCHARGED
1.018	19	21	116.381	1.788	0.000	0.18		373.3	SURCHARGED
14.000	TWC12	18	117.247	-0.162	0.000	0.18		6.5	OK
14.001	TWC13	17	117.074	-0.178	0.000	0.10		12.3	OK
14.002	TWC14	21	116.376	0.097	0.000	0.31		24.7	SURCHARGED
1.019	TWC15	21	116.373	2.045	0.000	0.31		390.3	SURCHARGED
15.000	65	18	117.198	-0.171	0.000	0.38		26.4	OK
16.000	136	17	118.045	-0.169	0.000	0.14		8.4	OK
16.001	137	17	117.742	-0.165	0.000	0.16		9.0	OK



M-EC		Page 129
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	17	117.490	-0.229	0.000	0.13		16.3	OK
15.001	66	20	116.995	-0.191	0.000	0.48		56.6	OK
15.002	67	22	116.872	-0.172	0.000	0.56		63.8	OK
17.000	9	18	117.317	-0.267	0.000	0.03		2.3	OK
17.001	75	17	117.187	-0.210	0.000	0.20		15.2	OK
17.002	76	22	116.787	-0.433	0.000	0.07		29.0	OK
15.003	68	22	116.761	-0.184	0.000	0.43		103.7	OK
15.004	69	22	116.710	-0.107	0.000	0.38		119.0	OK
15.005	70	22	116.653	-0.075	0.000	0.40		112.7	OK
15.006	71	22	116.609	-0.065	0.000	0.42		129.1	OK
18.000	147	20	116.802	-0.169	0.000	0.14		5.4	OK
18.001	112	22	116.675	-0.172	0.000	0.23		12.3	OK
18.002	113	22	116.670	-0.133	0.000	0.12		15.3	OK
19.000	115	18	117.309	-0.185	0.000	0.07		3.5	OK
19.001	116	17	117.058	-0.172	0.000	0.13		9.9	OK
18.003	77	22	116.666	-0.084	0.000	0.20		24.7	OK
20.000	134	18	117.262	-0.170	0.000	0.14		11.5	OK
18.004	135	22	116.651	-0.049	0.000	0.25		42.0	OK
18.005	78	22	116.596	-0.049	0.000	0.24		42.3	OK
15.007	72	22	116.549	-0.049	0.000	0.61		173.7	OK
15.008	73	22	116.454	0.000	0.000	0.79		168.1	OK
15.009	74	22	116.430	0.019	0.000	1.03		167.5	SURCHARGED
15.010	98	21	116.421	0.036	0.000	0.61		162.8	SURCHARGED
15.011	99	21	116.405	0.122	0.000	0.53		148.9	SURCHARGED
15.012	101	21	116.383	0.284	0.000	0.49		135.8	SURCHARGED
21.000	142	18	117.147	-0.142	0.000	0.29		13.3	OK
21.001	143	20	116.732	-0.135	0.000	0.34		19.9	OK
22.000	118	20	117.106	-0.200	0.000	0.03		0.9	OK
22.001	119	19	117.063	-0.157	0.000	0.20		6.2	OK
22.002	120	19	117.020	-0.141	0.000	0.30		18.7	OK
23.000	129	23	116.649	-0.228	0.000	0.13		10.6	OK
23.001	130	22	116.586	-0.156	0.000	0.13		12.8	OK
22.003	121	22	116.579	0.085	0.000	0.64		41.4	SURCHARGED
24.000	131	20	116.957	-0.122	0.000	0.43		18.0	OK
24.001	132	21	116.721	-0.061	0.000	0.87		23.7	OK
24.002	133	22	116.576	-0.164	0.000	0.22		27.8	OK
22.004	122	21	116.566	0.141	0.000	0.41		73.9	SURCHARGED
22.005	123	19	116.532	0.203	0.000	0.55		84.1	SURCHARGED
25.000	139	21	116.769	-0.117	0.000	0.46		12.5	OK
25.001	140	21	116.656	-0.118	0.000	0.46		28.1	OK
22.006	124	19	116.523	0.261	0.000	0.78		117.2	SURCHARGED
22.007	125	19	116.510	0.304	0.000	0.43		116.8	SURCHARGED
22.008	126	19	116.504	0.345	0.000	0.22		121.0	SURCHARGED
22.009	127	19	116.500	0.437	0.000	0.46		113.2	SURCHARGED
21.002	149	19	116.495	0.480	0.000	0.15		117.3	SURCHARGED
1.020	20	21	116.363	2.809	0.000	6.33		419.3	SURCHARGED
1.021	108	19	115.695	2.150	0.000	1.66		415.2	SURCHARGED
1.022	21	19	115.489	2.080	0.000	1.61		411.3	SURCHARGED
1.023	22	19	115.211	1.990	0.000	1.68		411.5	SURCHARGED

M-EC		Page 130
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	17	119.344	-0.594	0.000	0.03		24.6	OK
26.001	90	17	119.017	-0.590	0.000	0.04		29.2	OK
27.000	200	17	119.577	-0.239	0.000	0.09		14.1	OK
27.001	109	17	118.870	-0.409	0.000	0.11		15.8	OK
26.002	91	17	118.640	-0.608	0.000	0.08		44.7	OK
28.000	TWD27	17	119.412	-0.205	0.000	0.22		28.7	OK
26.003	91A	17	118.514	-0.648	0.000	0.10		78.7	OK
26.004	92	16	118.443	-0.621	0.000	0.14		89.3	OK
26.005	93	16	118.365	-0.638	0.000	0.12		88.7	OK
29.000	TWD29	17	119.434	-0.131	0.000	0.36		13.1	OK
29.001	TWD30	16	119.278	-0.180	0.000	0.34		21.6	OK
29.002	TWD31	16	119.130	-0.218	0.000	0.17		29.0	OK
26.006	94	16	118.259	-0.607	0.000	0.15		118.3	OK
26.007	95	16	118.150	-0.605	0.000	0.16		121.1	OK
30.000	201	17	119.238	-0.203	0.000	0.23		19.1	OK
30.001	202	16	119.012	-0.178	0.000	0.35		25.9	OK
30.002	203	16	118.969	-0.132	0.000	0.60		44.8	OK
30.003	204	16	118.736	-0.247	0.000	0.25		52.7	OK
30.004	117	16	118.493	-0.178	0.000	0.54		55.9	OK
26.008	95A	16	118.058	-0.553	0.000	0.23		186.0	OK
26.009	96	16	117.858	-0.575	0.000	0.20		183.9	OK
26.010	97	16	117.439	-0.599	0.000	0.17		186.3	OK
31.000	121	17	117.125	-0.495	0.000	0.34		121.9	OK
32.000	TWD4	17	120.095	-0.166	0.000	0.16		7.6	OK
32.001	TWD5	16	119.905	-0.144	0.000	0.28		16.7	OK
33.000	TWD16	17	119.548	-0.163	0.000	0.43		27.8	OK
32.002	TWD6	16	119.389	-0.199	0.000	0.44		47.6	OK
34.000	TWD17	17	119.550	-0.157	0.000	0.20		10.4	OK
35.000	TWD18	17	119.477	-0.161	0.000	0.18		7.3	OK
32.003	TWD7	16	119.236	-0.204	0.000	0.42		69.5	OK
32.004	TWD8	16	118.738	-0.245	0.000	0.42		85.9	OK
32.005	TWD9	16	118.640	-0.211	0.000	0.54		91.4	OK
32.006	TWD10	16	118.591	-0.210	0.000	0.54		92.1	OK
36.000	TWD19	17	119.595	-0.126	0.000	0.40		27.6	OK
32.007	TWD11	16	117.540	-0.181	0.000	0.81		122.9	OK
37.000	TWD20	17	119.342	-0.144	0.000	0.28		10.5	OK
37.001	TWD21	16	119.086	-0.185	0.000	0.31		21.0	OK
37.002	TWD22	16	118.906	-0.160	0.000	0.44		29.7	OK
37.003	TWD23	16	118.642	-0.218	0.000	0.36		38.7	OK
37.004	TWD24	16	118.529	-0.257	0.000	0.21		45.1	OK
37.005	TWD25	16	118.044	-0.254	0.000	0.23		51.1	OK
32.008	TWD12	16	117.410	-0.290	0.000	0.51		179.9	OK
38.000	TWD26	17	119.280	-0.170	0.000	0.14		13.7	OK
32.009	TWD13	16	117.305	-0.310	0.000	0.45		194.8	OK
32.010	TWD14	16	117.246	-0.301	0.000	0.49		203.4	OK
32.011	TWD15	16	117.198	-0.297	0.000	0.68		212.1	OK
26.011	98	16	116.883	-0.705	0.000	0.23		503.3	OK
26.012	99	16	116.378	-0.642	0.000	0.30		504.6	OK
26.013	100	16	116.291	-0.438	0.000	0.64		502.1	OK

M-EC		Page 131
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	18	115.079	1.947	0.000	2.45	634.2	634.2	SURCHARGED
1.025	24	18	113.868	0.942	0.000	2.46	629.6	629.6	SURCHARGED
1.026	25	17	113.044	0.255	0.000	0.99	629.9	629.9	SURCHARGED
39.000	79	17	121.680	-0.493	0.000	0.01	5.9	5.9	OK
39.001	80	16	121.297	-0.462	0.000	0.03	16.4	16.4	OK
39.002	81	16	120.735	-0.592	0.000	0.04	20.2	20.2	OK
40.000	130	16	121.043	-0.158	0.000	0.19	6.4	6.4	OK
41.000	BAR1	17	121.714	-0.091	0.000	0.33	9.4	9.4	OK
41.001	131	16	120.905	-0.269	0.000	0.18	16.7	16.7	OK
39.003	81A	16	120.582	-0.552	0.000	0.08	46.2	46.2	OK
42.000	133	16	120.695	-0.251	0.000	0.06	3.5	3.5	OK
39.004	82	16	120.321	-0.584	0.000	0.11	58.4	58.4	OK
39.005	83	16	120.238	-0.597	0.000	0.09	58.0	58.0	OK
43.000	BAR2	17	121.544	-0.085	0.000	0.39	12.2	12.2	OK
43.001	136	16	120.448	-0.244	0.000	0.27	19.7	19.7	OK
39.006	83A	16	120.109	-0.561	0.000	0.14	82.9	82.9	OK
44.000	206	16	120.561	-0.296	0.000	0.12	12.5	12.5	OK
44.001	207	16	120.550	-0.269	0.000	0.13	15.3	15.3	OK
44.002	208	16	120.541	-0.235	0.000	0.19	25.6	25.6	OK
44.003	209	16	120.513	-0.191	0.000	0.28	25.9	25.9	OK
45.000	210	17	120.921	-0.164	0.000	0.16	7.4	7.4	OK
45.001	211	16	120.733	-0.209	0.000	0.20	13.3	13.3	OK
45.002	212	16	120.520	-0.236	0.000	0.18	19.8	19.8	OK
44.004	213	16	120.505	-0.177	0.000	0.56	58.1	58.1	OK
44.005	214	16	120.469	-0.176	0.000	0.45	60.1	60.1	OK
44.006	215	16	120.428	-0.153	0.000	0.74	69.6	69.6	OK
44.007	138	16	120.349	-0.208	0.000	0.55	69.9	69.9	OK
39.007	84	16	120.007	-0.518	0.000	0.28	165.0	165.0	OK
46.000	BAR4	17	121.591	-0.118	0.000	0.45	17.0	17.0	OK
46.001	BAR5	16	121.399	-0.089	0.000	0.67	24.0	24.0	OK
47.000	BAR6	17	122.068	-0.083	0.000	0.41	6.9	6.9	OK
47.001	BAR7	16	121.749	-0.122	0.000	0.43	15.8	15.8	OK
47.002	BAR8	16	121.598	-0.129	0.000	0.38	22.1	22.1	OK
46.002	BAR9	16	121.290	-0.089	0.000	0.83	51.0	51.0	OK
46.003	BAR10	16	121.132	-0.169	0.000	0.39	64.5	64.5	OK
46.004	140	16	120.281	-0.214	0.000	0.54	64.4	64.4	OK
39.008	85	16	119.954	-0.514	0.000	0.30	228.3	228.3	OK
39.009	86	16	119.819	-0.515	0.000	0.29	235.6	235.6	OK
48.000	BAR3	17	120.849	-0.099	0.000	0.25	8.2	8.2	OK
48.001	143	16	119.840	-0.334	0.000	0.15	17.2	17.2	OK
49.000	216	17	120.447	-0.223	0.000	0.15	25.7	25.7	OK
49.001	144	17	119.882	-0.313	0.000	0.20	27.1	27.1	OK
39.010	87	16	119.587	-0.565	0.000	0.29	275.4	275.4	OK
39.011	88	16	119.474	-0.533	0.000	0.33	318.1	318.1	OK
39.012	103	16	119.353	-0.498	0.000	0.36	345.5	345.5	OK
50.000	BAR11	17	121.369	-0.076	0.000	0.49	8.4	8.4	OK
50.001	BAR12	16	121.012	-0.126	0.000	0.40	20.4	20.4	OK
51.000	BAR13	16	120.816	-0.152	0.000	0.11	3.3	3.3	OK
50.002	BAR14	16	120.811	-0.108	0.000	0.53	28.3	28.3	OK

M-EC		Page 132
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		

Summary Wizard of 120 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	17	120.873	-0.078	0.000	0.47		7.9	OK
52.001	BAR16	16	120.589	-0.137	0.000	0.32		14.2	OK
50.003	BAR17	16	120.512	-0.106	0.000	0.74		45.6	OK
50.004	BAR18	16	120.447	-0.094	0.000	0.80		50.6	OK
50.005	BAR19	16	120.267	-0.182	0.000	0.33		57.0	OK
50.006	149	16	119.456	-0.269	0.000	0.34		56.9	OK
53.000	TWD1	17	120.447	-0.167	0.000	0.15		5.7	OK
54.000	TWD3	17	120.687	-0.195	0.000	0.04		3.6	OK
53.001	TWD2	16	120.089	-0.157	0.000	0.20		17.9	OK
39.013	104	16	119.232	-0.438	0.000	0.63		419.0	OK
39.014	104A	16	119.045	-0.590	0.000	0.37		423.0	OK
55.000	BAR20	17	121.429	-0.064	0.000	0.62		10.8	OK
55.001	BAR21	16	120.923	-0.130	0.000	0.37		20.1	OK
56.000	BAR22	17	120.490	-0.115	0.000	0.48		17.5	OK
56.001	BAR23	16	120.382	-0.087	0.000	0.69		22.5	OK
55.002	BAR24	16	120.272	-0.142	0.000	0.54		44.0	OK
55.003	BAR25	16	120.005	-0.189	0.000	0.49		51.9	OK
55.004	BAR26	16	119.855	-0.261	0.000	0.20		62.0	OK
39.015	105	16	118.876	-0.598	0.000	0.35		471.9	OK
39.016	106	16	118.719	-1.428	0.000	0.06		463.6	OK
39.017	107	16	116.042	-0.505	0.000	0.24		454.2	OK
1.027	26	16	112.364	-0.544	0.000	0.29		1084.7	OK
1.028	27	16	109.525	-0.222	0.000	0.52		1084.8	FLOOD RISK*
1.029	28	16	106.588	-0.603	0.000	0.23		1071.6	OK
1.030	29	16	97.649	-0.828	0.000	0.18		1068.0	OK
1.031	30	16	93.106	-0.276	0.000	0.51		1058.3	FLOOD RISK*
1.032	31	16	92.040	-0.210	0.000	0.66		1039.9	FLOOD RISK*
1.033	32	24	91.528	-0.595	0.000	0.32		1022.7	OK
1.034	33	26	90.795	0.522	0.000	1.07		262.3	SURCHARGED*
57.000	108	25	91.347	-0.539	0.000	0.38		615.3	OK
57.001	109	25	91.158	-0.728	0.000	0.28		536.5	OK
57.002	110	28	90.879	-1.007	0.000	0.18		449.8	OK
1.035	109	26	90.620	0.754	0.000	0.27		64.3	SURCHARGED*
1.036	34	31	86.650	0.000	0.000	0.71		59.4	SURCHARGED*

M-EC		Page 133
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged		Flooded		Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Flow / Overflow (l/s)	Flow (l/s)	
1.000	1	27	116.627	-0.228	0.000	0.11	8.5	OK	
1.001	2	22	116.618	-0.091	0.000	0.13	11.0	OK	
1.002	3	22	116.612	0.124	0.000	0.09	11.0	SURCHARGED	
1.003	4	22	116.609	0.262	0.000	0.18	32.1	SURCHARGED	
2.000	5	25	118.437	-0.238	0.000	0.10	11.0	OK	
2.001	6	24	118.257	-0.204	0.000	0.23	23.5	OK	
2.002	6	24	118.003	-0.210	0.000	0.20	26.8	OK	
2.003	8	27	117.123	-0.225	0.000	0.14	33.6	OK	
3.000	9.1	25	118.283	-0.142	0.000	0.29	15.2	OK	
3.001	9	22	117.145	0.000	0.000	0.19	15.2	OK	
3.002	10	21	117.129	0.146	0.000	0.19	20.2	SURCHARGED	
3.003	11	21	117.123	0.241	0.000	0.22	38.8	SURCHARGED	
4.000	12	26	117.121	-0.165	0.000	0.12	12.7	OK	
3.004	13	21	117.116	0.356	0.000	0.16	51.4	SURCHARGED	
3.005	14	21	117.109	0.556	0.000	0.29	70.2	SURCHARGED	
3.006	15	21	117.068	0.603	0.000	0.32	71.8	SURCHARGED	
2.004	16	21	117.066	0.623	0.000	0.30	105.1	SURCHARGED	
2.005	17	22	117.020	0.667	0.000	0.29	119.6	SURCHARGED	
5.000	18	22	116.880	-0.007	0.000	0.06	7.1	OK	
2.006	19	22	116.877	0.698	0.000	0.32	131.5	SURCHARGED	
2.007	20	22	116.734	0.727	0.000	0.34	136.5	SURCHARGED	
1.004	21	22	116.597	0.749	0.000	0.46	158.0	SURCHARGED	

M-EC		Page 134
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	22	116.517	0.730	0.000	0.29		180.3	SURCHARGED
6.000	23	28	116.778	-0.152	0.000	0.23		10.2	OK
6.001	24	27	116.556	-0.137	0.000	0.28		10.2	OK
6.002	25	23	116.547	-0.078	0.000	0.22		16.6	OK
6.003	26	22	116.532	0.217	0.000	0.37		22.7	SURCHARGED
6.004	27	22	116.526	0.270	0.000	0.26		32.7	SURCHARGED
6.005	28	22	116.511	0.528	0.000	0.14		32.7	SURCHARGED
1.006	29	22	116.505	0.875	0.000	0.25		211.9	SURCHARGED
7.000	30	25	118.098	-0.162	0.000	0.17		6.8	OK
7.001	31	24	117.923	-0.172	0.000	0.13		15.2	OK
1.007	8	23	116.321	0.980	0.000	0.27		199.2	SURCHARGED
8.000	60	27	116.682	-0.174	0.000	0.12		4.6	OK
8.001	61	28	116.427	-0.257	0.000	0.05		5.2	OK
8.002	35	26	116.166	-0.262	0.000	0.03		7.6	OK
1.008	10	23	116.156	1.077	0.000	0.60		198.4	SURCHARGED
9.000	62	25	119.091	-0.209	0.000	0.20		16.6	OK
10.000	40	25	118.872	-0.096	0.000	0.80		49.0	OK
9.001	63	25	118.776	-0.203	0.000	0.43		71.9	OK
9.002	64	25	118.256	-0.262	0.000	0.20		91.2	OK
9.003	148	23	116.304	1.038	0.000	0.34		87.3	SURCHARGED
1.009	11	23	116.149	1.089	0.000	0.37		273.0	SURCHARGED
1.010	12	23	116.134	1.158	0.000	0.72		270.6	SURCHARGED
1.011	13	23	116.124	1.170	0.000	0.61		265.0	SURCHARGED
1.012	14	23	116.111	1.190	0.000	0.27		250.9	SURCHARGED
1.013	15	23	116.102	1.232	0.000	0.51		233.0	SURCHARGED
1.014	16	23	116.093	1.246	0.000	0.25		233.4	SURCHARGED
11.000	TWC16	25	117.686	-0.155	0.000	0.21		20.7	OK
11.001	TWC17	23	116.094	0.434	0.000	0.16		20.6	SURCHARGED
1.015	17	23	116.084	1.214	0.000	0.17		249.4	SURCHARGED
1.016	18	23	116.074	1.307	0.000	0.19		258.3	SURCHARGED
12.000	TWC1	25	117.641	-0.160	0.000	0.18		6.8	OK
12.001	TWC2	25	117.488	-0.148	0.000	0.26		9.9	OK
12.002	TWC3	24	117.267	-0.103	0.000	0.57		19.7	OK
12.003	TWC4	24	117.197	-0.100	0.000	0.59		19.7	OK
13.000	TWC5	25	118.151	-0.139	0.000	0.31		11.8	OK
13.001	TWC6	24	117.965	-0.103	0.000	0.57		21.3	OK
13.002	TWC7	24	117.769	-0.129	0.000	0.38		26.8	OK
12.004	TWC8	24	117.075	-0.167	0.000	0.54		51.6	OK
12.005	TWC9	24	117.012	-0.156	0.000	0.64		56.5	OK
12.006	TWC10	25	116.901	-0.219	0.000	0.36		58.4	OK
1.017	TWC11	23	116.065	1.398	0.000	0.18		263.7	SURCHARGED
1.018	19	23	116.056	1.463	0.000	0.12		256.3	SURCHARGED
14.000	TWC12	25	117.234	-0.175	0.000	0.11		4.1	OK
14.001	TWC13	24	117.063	-0.189	0.000	0.06		7.8	OK
14.002	TWC14	27	116.122	-0.157	0.000	0.20		15.6	OK
1.019	TWC15	23	116.046	1.718	0.000	0.20		253.0	SURCHARGED
15.000	65	26	117.169	-0.200	0.000	0.24		16.7	OK
16.000	136	25	118.034	-0.180	0.000	0.09		5.3	OK
16.001	137	25	117.730	-0.177	0.000	0.10		5.7	OK

M-EC		Page 135
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	24	117.475	-0.244	0.000	0.08		10.3	OK
15.001	66	28	116.953	-0.233	0.000	0.30		35.9	OK
15.002	67	27	116.824	-0.220	0.000	0.36		40.5	OK
17.000	9	25	117.309	-0.275	0.000	0.02		1.4	OK
17.001	75	24	117.167	-0.230	0.000	0.12		9.6	OK
17.002	76	27	116.767	-0.453	0.000	0.05		18.3	OK
15.003	68	27	116.607	-0.338	0.000	0.27		66.2	OK
15.004	69	27	116.451	-0.366	0.000	0.25		79.4	OK
15.005	70	27	116.396	-0.332	0.000	0.28		78.3	OK
15.006	71	25	116.370	-0.304	0.000	0.29		90.4	OK
18.000	147	26	116.791	-0.180	0.000	0.09		3.4	OK
18.001	112	27	116.624	-0.223	0.000	0.15		7.8	OK
18.002	113	27	116.463	-0.340	0.000	0.08		10.1	OK
19.000	115	25	117.300	-0.194	0.000	0.05		2.2	OK
19.001	116	24	117.048	-0.182	0.000	0.08		6.3	OK
18.003	77	27	116.433	-0.317	0.000	0.14		18.1	OK
20.000	134	25	117.251	-0.181	0.000	0.09		7.3	OK
18.004	135	24	116.390	-0.310	0.000	0.18		31.1	OK
18.005	78	25	116.360	-0.285	0.000	0.20		34.2	OK
15.007	72	25	116.343	-0.255	0.000	0.45		129.0	OK
15.008	73	24	116.290	-0.164	0.000	0.63		134.3	OK
15.009	74	24	116.261	-0.150	0.000	0.82		133.8	OK
15.010	98	24	116.243	-0.142	0.000	0.49		131.9	OK
15.011	99	24	116.184	-0.099	0.000	0.45		126.4	OK
15.012	101	23	116.099	0.000	0.000	0.45		123.4	OK
21.000	142	25	117.129	-0.160	0.000	0.18		8.4	OK
21.001	143	27	116.712	-0.155	0.000	0.21		12.7	OK
22.000	118	26	117.100	-0.206	0.000	0.02		0.6	OK
22.001	119	25	117.047	-0.173	0.000	0.12		3.9	OK
22.002	120	25	117.002	-0.159	0.000	0.19		11.8	OK
23.000	129	28	116.634	-0.243	0.000	0.08		6.7	OK
23.001	130	28	116.498	-0.244	0.000	0.08		8.1	OK
22.003	121	23	116.435	-0.059	0.000	0.40		26.2	OK
24.000	131	26	116.934	-0.145	0.000	0.27		11.4	OK
24.001	132	28	116.677	-0.105	0.000	0.55		15.0	OK
24.002	133	27	116.514	-0.226	0.000	0.14		17.6	OK
22.004	122	23	116.424	0.000	0.000	0.26		46.9	OK
22.005	123	23	116.358	0.030	0.000	0.35		53.5	SURCHARGED
25.000	139	27	116.744	-0.142	0.000	0.29		7.9	OK
25.001	140	27	116.631	-0.143	0.000	0.29		17.8	OK
22.006	124	23	116.301	0.040	0.000	0.50		74.6	SURCHARGED
22.007	125	23	116.206	0.000	0.000	0.27		74.4	OK
22.008	126	23	116.175	0.015	0.000	0.15		79.3	SURCHARGED
22.009	127	23	116.170	0.107	0.000	0.32		78.1	SURCHARGED
21.002	149	23	116.165	0.150	0.000	0.11		89.7	SURCHARGED
1.020	20	23	116.036	2.482	0.000	5.65		374.8	SURCHARGED
1.021	108	23	115.393	1.848	0.000	1.50		376.2	SURCHARGED
1.022	21	22	115.198	1.789	0.000	1.48		376.0	SURCHARGED
1.023	22	22	114.932	1.711	0.000	1.54		375.7	SURCHARGED

M-EC		Page 136
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	25	119.331	-0.607	0.000	0.02		15.6	OK
26.001	90	25	119.003	-0.604	0.000	0.02		18.5	OK
27.000	200	25	119.562	-0.254	0.000	0.06		8.9	OK
27.001	109	25	118.844	-0.435	0.000	0.07		10.0	OK
26.002	91	25	118.606	-0.642	0.000	0.05		28.3	OK
28.000	TWD27	25	119.391	-0.226	0.000	0.14		18.1	OK
26.003	91A	25	118.474	-0.688	0.000	0.07		49.9	OK
26.004	92	25	118.404	-0.660	0.000	0.09		56.7	OK
26.005	93	24	118.326	-0.677	0.000	0.07		56.5	OK
29.000	TWD29	25	119.413	-0.152	0.000	0.23		8.3	OK
29.001	TWD30	25	119.252	-0.206	0.000	0.21		13.7	OK
29.002	TWD31	24	119.113	-0.235	0.000	0.11		18.4	OK
26.006	94	24	118.215	-0.651	0.000	0.10		75.4	OK
26.007	95	24	118.105	-0.650	0.000	0.10		77.4	OK
30.000	201	25	119.217	-0.224	0.000	0.14		12.1	OK
30.001	202	25	118.985	-0.205	0.000	0.22		16.4	OK
30.002	203	24	118.929	-0.172	0.000	0.38		28.4	OK
30.003	204	24	118.708	-0.275	0.000	0.16		33.4	OK
30.004	117	24	118.447	-0.224	0.000	0.34		35.5	OK
26.008	95A	24	117.998	-0.613	0.000	0.15		118.9	OK
26.009	96	24	117.803	-0.630	0.000	0.13		118.1	OK
26.010	97	24	117.392	-0.646	0.000	0.11		119.0	OK
31.000	121	25	117.052	-0.568	0.000	0.21		77.2	OK
32.000	TWD4	25	120.083	-0.178	0.000	0.10		4.8	OK
32.001	TWD5	24	119.888	-0.161	0.000	0.18		10.6	OK
33.000	TWD16	25	119.517	-0.194	0.000	0.27		17.6	OK
32.002	TWD6	25	119.349	-0.239	0.000	0.28		30.3	OK
34.000	TWD17	25	119.535	-0.172	0.000	0.13		6.6	OK
35.000	TWD18	25	119.463	-0.175	0.000	0.11		4.7	OK
32.003	TWD7	24	119.197	-0.243	0.000	0.27		44.3	OK
32.004	TWD8	24	118.691	-0.292	0.000	0.27		54.6	OK
32.005	TWD9	24	118.584	-0.267	0.000	0.34		58.3	OK
32.006	TWD10	24	118.535	-0.266	0.000	0.35		58.8	OK
36.000	TWD19	25	119.573	-0.148	0.000	0.26		17.5	OK
32.007	TWD11	24	117.430	-0.291	0.000	0.52		78.4	OK
37.000	TWD20	25	119.324	-0.162	0.000	0.18		6.7	OK
37.001	TWD21	24	119.061	-0.210	0.000	0.20		13.3	OK
37.002	TWD22	24	118.874	-0.192	0.000	0.28		18.9	OK
37.003	TWD23	24	118.607	-0.253	0.000	0.23		24.6	OK
37.004	TWD24	24	118.503	-0.283	0.000	0.14		28.7	OK
37.005	TWD25	24	118.017	-0.281	0.000	0.14		32.5	OK
32.008	TWD12	24	117.312	-0.388	0.000	0.33		116.1	OK
38.000	TWD26	25	119.269	-0.181	0.000	0.09		8.6	OK
32.009	TWD13	25	117.200	-0.415	0.000	0.29		127.1	OK
32.010	TWD14	25	117.141	-0.406	0.000	0.32		132.3	OK
32.011	TWD15	25	117.092	-0.403	0.000	0.44		138.2	OK
26.011	98	24	116.810	-0.778	0.000	0.15		328.8	OK
26.012	99	25	116.288	-0.732	0.000	0.20		329.4	OK
26.013	100	25	116.154	-0.575	0.000	0.42		329.6	OK



M-EC		Page 137
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	22	114.797	1.665	0.000	2.31	600.1	SURCHARGED
1.025	24	22	113.689	0.763	0.000	2.35	601.7	SURCHARGED
1.026	25	22	112.929	0.140	0.000	0.94	600.5	SURCHARGED
39.000	79	25	121.668	-0.505	0.000	0.01	3.7	OK
39.001	80	24	121.287	-0.472	0.000	0.02	10.3	OK
39.002	81	24	120.721	-0.606	0.000	0.02	12.8	OK
40.000	130	25	121.029	-0.172	0.000	0.12	4.2	OK
41.000	BAR1	25	121.701	-0.104	0.000	0.21	5.9	OK
41.001	131	25	120.882	-0.292	0.000	0.11	10.6	OK
39.003	81A	24	120.554	-0.580	0.000	0.05	29.5	OK
42.000	133	25	120.685	-0.261	0.000	0.04	2.3	OK
39.004	82	24	120.285	-0.620	0.000	0.07	37.2	OK
39.005	83	24	120.202	-0.633	0.000	0.06	37.1	OK
43.000	BAR2	25	121.529	-0.100	0.000	0.25	7.7	OK
43.001	136	25	120.420	-0.272	0.000	0.17	12.4	OK
39.006	83A	24	120.070	-0.600	0.000	0.09	53.0	OK
44.000	206	24	120.510	-0.347	0.000	0.08	8.0	OK
44.001	207	24	120.490	-0.329	0.000	0.09	10.0	OK
44.002	208	24	120.473	-0.303	0.000	0.12	17.0	OK
44.003	209	24	120.446	-0.259	0.000	0.18	16.8	OK
45.000	210	25	120.908	-0.177	0.000	0.10	4.7	OK
45.001	211	25	120.713	-0.229	0.000	0.13	8.5	OK
45.002	212	24	120.470	-0.286	0.000	0.12	12.7	OK
44.004	213	24	120.438	-0.244	0.000	0.37	38.3	OK
44.005	214	24	120.401	-0.245	0.000	0.30	39.9	OK
44.006	215	24	120.356	-0.224	0.000	0.49	46.4	OK
44.007	138	24	120.296	-0.261	0.000	0.36	46.4	OK
39.007	84	24	119.943	-0.582	0.000	0.18	107.9	OK
46.000	BAR4	25	121.566	-0.143	0.000	0.29	10.8	OK
46.001	BAR5	25	121.366	-0.122	0.000	0.43	15.3	OK
47.000	BAR6	25	122.053	-0.098	0.000	0.26	4.4	OK
47.001	BAR7	24	121.726	-0.145	0.000	0.27	10.0	OK
47.002	BAR8	24	121.576	-0.151	0.000	0.24	14.0	OK
46.002	BAR9	24	121.234	-0.145	0.000	0.53	32.4	OK
46.003	BAR10	24	121.103	-0.198	0.000	0.25	40.9	OK
46.004	140	24	120.226	-0.269	0.000	0.34	40.9	OK
39.008	85	24	119.890	-0.578	0.000	0.19	148.3	OK
39.009	86	24	119.755	-0.579	0.000	0.19	154.4	OK
48.000	BAR3	25	120.837	-0.111	0.000	0.16	5.2	OK
48.001	143	24	119.817	-0.357	0.000	0.10	10.8	OK
49.000	216	25	120.432	-0.238	0.000	0.09	16.2	OK
49.001	144	25	119.852	-0.343	0.000	0.13	17.2	OK
39.010	87	24	119.518	-0.634	0.000	0.19	180.8	OK
39.011	88	24	119.395	-0.612	0.000	0.22	210.0	OK
39.012	103	24	119.250	-0.601	0.000	0.24	227.5	OK
50.000	BAR11	25	121.352	-0.093	0.000	0.31	5.3	OK
50.001	BAR12	24	120.989	-0.149	0.000	0.25	12.9	OK
51.000	BAR13	25	120.793	-0.175	0.000	0.07	2.1	OK
50.002	BAR14	24	120.784	-0.135	0.000	0.33	17.9	OK

M-EC		Page 138
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Pipe Overflow (l/s)	Status
52.000	BAR15	25	120.857	-0.094	0.000	0.30	5.0	OK
52.001	BAR16	25	120.570	-0.156	0.000	0.20	9.0	OK
50.003	BAR17	24	120.463	-0.155	0.000	0.47	28.9	OK
50.004	BAR18	24	120.393	-0.148	0.000	0.51	32.1	OK
50.005	BAR19	24	120.241	-0.208	0.000	0.21	36.1	OK
50.006	149	24	119.416	-0.309	0.000	0.21	36.1	OK
53.000	TWD1	25	120.435	-0.179	0.000	0.09	3.6	OK
54.000	TWD3	25	120.681	-0.201	0.000	0.03	2.3	OK
53.001	TWD2	24	120.074	-0.172	0.000	0.13	11.3	OK
39.013	104	25	119.090	-0.580	0.000	0.41	274.4	OK
39.014	104A	25	118.950	-0.685	0.000	0.24	276.7	OK
55.000	BAR20	25	121.408	-0.085	0.000	0.39	6.8	OK
55.001	BAR21	25	120.902	-0.151	0.000	0.24	12.8	OK
56.000	BAR22	25	120.465	-0.140	0.000	0.30	11.1	OK
56.001	BAR23	25	120.348	-0.121	0.000	0.44	14.3	OK
55.002	BAR24	24	120.235	-0.179	0.000	0.34	28.0	OK
55.003	BAR25	24	119.962	-0.232	0.000	0.31	33.0	OK
55.004	BAR26	24	119.829	-0.287	0.000	0.13	39.4	OK
39.015	105	23	118.780	-0.694	0.000	0.23	311.7	OK
39.016	106	23	118.617	-1.530	0.000	0.04	308.9	OK
39.017	107	22	115.948	-0.599	0.000	0.16	305.7	OK
1.027	26	22	112.304	-0.604	0.000	0.24	899.4	OK
1.028	27	22	109.474	-0.273	0.000	0.43	896.1	FLOOD RISK*
1.029	28	22	106.535	-0.656	0.000	0.19	895.0	OK
1.030	29	22	97.592	-0.885	0.000	0.15	886.2	OK
1.031	30	22	93.043	-0.339	0.000	0.43	884.2	OK
1.032	31	22	91.956	-0.294	0.000	0.55	868.4	FLOOD RISK*
1.033	32	27	91.457	-0.666	0.000	0.27	859.5	OK
1.034	33	25	90.898	0.625	0.000	0.98	239.9	SURCHARGED*
57.000	108	29	91.169	-0.717	0.000	0.25	400.5	OK
57.001	109	28	90.996	-0.890	0.000	0.19	372.6	OK
57.002	110	36	90.762	-1.124	0.000	0.14	337.7	OK
1.035	109	22	90.755	0.889	0.000	0.25	61.4	SURCHARGED*
1.036	34	41	86.650	0.000	0.000	0.73	60.3	SURCHARGED*

M-EC		Page 139
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	1	31	116.610	-0.245	0.000	0.08	6.2	OK	
1.001	2	31	116.470	-0.239	0.000	0.09	8.0	OK	
1.002	3	31	116.175	-0.313	0.000	0.06	8.0	OK	
1.003	4	28	116.090	-0.257	0.000	0.13	23.5	OK	
2.000	5	31	118.427	-0.248	0.000	0.07	8.0	OK	
2.001	6	31	118.242	-0.219	0.000	0.17	17.1	OK	
2.002	6	31	117.989	-0.224	0.000	0.14	19.6	OK	
2.003	8	31	117.112	-0.236	0.000	0.10	24.6	OK	
3.000	9.1	31	118.270	-0.155	0.000	0.21	11.2	OK	
3.001	9	31	116.919	-0.226	0.000	0.14	11.2	OK	
3.002	10	31	116.701	-0.282	0.000	0.14	14.9	OK	
3.003	11	30	116.582	-0.300	0.000	0.16	28.5	OK	
4.000	12	31	117.106	-0.180	0.000	0.09	9.3	OK	
3.004	13	26	116.571	-0.189	0.000	0.12	37.8	OK	
3.005	14	26	116.553	0.000	0.000	0.21	51.7	OK	
3.006	15	26	116.510	0.045	0.000	0.24	53.1	SURCHARGED	
2.004	16	26	116.508	0.065	0.000	0.22	77.6	SURCHARGED	
2.005	17	25	116.494	0.141	0.000	0.21	88.3	SURCHARGED	
5.000	18	31	116.692	-0.195	0.000	0.04	5.2	OK	
2.006	19	25	116.352	0.173	0.000	0.23	97.4	SURCHARGED	
2.007	20	25	116.209	0.202	0.000	0.29	116.2	SURCHARGED	
1.004	21	25	116.075	0.227	0.000	0.38	131.8	SURCHARGED	

M-EC		Page 140
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	25	116.070	0.283	0.000	0.25		154.8	SURCHARGED
6.000	23	31	116.766	-0.164	0.000	0.17		7.5	OK
6.001	24	31	116.537	-0.156	0.000	0.20		7.5	OK
6.002	25	31	116.406	-0.219	0.000	0.16		12.2	OK
6.003	26	31	116.121	-0.194	0.000	0.27		16.6	OK
6.004	27	25	116.085	-0.171	0.000	0.19		24.1	OK
6.005	28	25	116.068	0.085	0.000	0.10		24.1	SURCHARGED
1.006	29	25	116.061	0.431	0.000	0.21		172.5	SURCHARGED
7.000	30	31	118.088	-0.172	0.000	0.13		5.0	OK
7.001	31	31	117.916	-0.179	0.000	0.09		11.1	OK
1.007	8	25	115.867	0.526	0.000	0.25		186.4	SURCHARGED
8.000	60	31	116.676	-0.180	0.000	0.09		3.3	OK
8.001	61	31	116.421	-0.263	0.000	0.04		3.8	OK
8.002	35	31	116.159	-0.269	0.000	0.02		5.6	OK
1.008	10	25	115.691	0.612	0.000	0.57		188.2	SURCHARGED
9.000	62	31	119.076	-0.224	0.000	0.15		12.2	OK
10.000	40	31	118.833	-0.135	0.000	0.58		35.9	OK
9.001	63	31	118.748	-0.231	0.000	0.31		52.9	OK
9.002	64	31	118.238	-0.280	0.000	0.15		67.0	OK
9.003	148	25	115.839	0.573	0.000	0.27		68.1	SURCHARGED
1.009	11	25	115.685	0.625	0.000	0.32		231.7	SURCHARGED
1.010	12	25	115.673	0.697	0.000	0.59		220.0	SURCHARGED
1.011	13	25	115.665	0.711	0.000	0.50		218.8	SURCHARGED
1.012	14	25	115.654	0.733	0.000	0.22		209.5	SURCHARGED
1.013	15	25	115.647	0.777	0.000	0.45		205.2	SURCHARGED
1.014	16	25	115.640	0.793	0.000	0.22		204.5	SURCHARGED
11.000	TWC16	31	117.675	-0.166	0.000	0.15		15.1	OK
11.001	TWC17	25	115.645	-0.015	0.000	0.12		15.1	OK
1.015	17	25	115.633	0.763	0.000	0.15		208.6	SURCHARGED
1.016	18	25	115.626	0.859	0.000	0.16		218.2	SURCHARGED
12.000	TWC1	31	117.631	-0.170	0.000	0.13		5.0	OK
12.001	TWC2	31	117.477	-0.159	0.000	0.19		7.2	OK
12.002	TWC3	31	117.246	-0.124	0.000	0.42		14.4	OK
12.003	TWC4	31	117.176	-0.121	0.000	0.44		14.4	OK
13.000	TWC5	31	118.137	-0.153	0.000	0.23		8.7	OK
13.001	TWC6	31	117.944	-0.124	0.000	0.42		15.6	OK
13.002	TWC7	31	117.753	-0.145	0.000	0.28		19.7	OK
12.004	TWC8	31	117.038	-0.204	0.000	0.39		37.9	OK
12.005	TWC9	31	116.974	-0.194	0.000	0.47		41.6	OK
12.006	TWC10	31	116.876	-0.244	0.000	0.27		43.0	OK
1.017	TWC11	25	115.618	0.951	0.000	0.17		241.0	SURCHARGED
1.018	19	25	115.610	1.017	0.000	0.11		231.1	SURCHARGED
14.000	TWC12	31	117.227	-0.182	0.000	0.08		3.0	OK
14.001	TWC13	31	117.057	-0.195	0.000	0.04		5.7	OK
14.002	TWC14	31	116.111	-0.168	0.000	0.14		11.4	OK
1.019	TWC15	25	115.603	1.275	0.000	0.19		232.8	SURCHARGED
15.000	65	31	117.154	-0.215	0.000	0.18		12.3	OK
16.000	136	31	118.026	-0.188	0.000	0.07		3.9	OK
16.001	137	31	117.722	-0.185	0.000	0.07		4.1	OK

M-EC		Page 141
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	31	117.466	-0.253	0.000	0.06		7.6	OK
15.001	66	31	116.930	-0.256	0.000	0.22		26.4	OK
15.002	67	31	116.799	-0.245	0.000	0.26		29.8	OK
17.000	9	31	117.302	-0.282	0.000	0.01		1.1	OK
17.001	75	31	117.158	-0.239	0.000	0.09		7.0	OK
17.002	76	31	116.757	-0.463	0.000	0.03		13.4	OK
15.003	68	31	116.579	-0.366	0.000	0.20		48.6	OK
15.004	69	31	116.407	-0.410	0.000	0.19		58.7	OK
15.005	70	31	116.344	-0.384	0.000	0.21		58.5	OK
15.006	71	31	116.313	-0.361	0.000	0.22		67.7	OK
18.000	147	31	116.783	-0.188	0.000	0.06		2.5	OK
18.001	112	31	116.613	-0.234	0.000	0.11		5.7	OK
18.002	113	31	116.443	-0.360	0.000	0.06		7.4	OK
19.000	115	31	117.296	-0.198	0.000	0.03		1.6	OK
19.001	116	31	117.040	-0.190	0.000	0.06		4.6	OK
18.003	77	31	116.403	-0.347	0.000	0.11		13.5	OK
20.000	134	31	117.243	-0.189	0.000	0.06		5.3	OK
18.004	135	31	116.344	-0.356	0.000	0.14		23.2	OK
18.005	78	31	116.305	-0.340	0.000	0.15		26.2	OK
15.007	72	31	116.283	-0.315	0.000	0.34		97.1	OK
15.008	73	31	116.201	-0.253	0.000	0.48		101.4	OK
15.009	74	31	116.157	-0.254	0.000	0.63		101.9	OK
15.010	98	31	116.049	-0.336	0.000	0.38		102.2	OK
15.011	99	31	115.930	-0.353	0.000	0.36		101.6	OK
15.012	101	31	115.751	-0.348	0.000	0.36		100.8	OK
21.000	142	31	117.118	-0.171	0.000	0.13		6.2	OK
21.001	143	31	116.701	-0.166	0.000	0.16		9.3	OK
22.000	118	31	117.095	-0.211	0.000	0.01		0.4	OK
22.001	119	31	117.040	-0.180	0.000	0.09		2.8	OK
22.002	120	31	116.991	-0.170	0.000	0.14		8.6	OK
23.000	129	31	116.624	-0.253	0.000	0.06		4.9	OK
23.001	130	31	116.489	-0.253	0.000	0.06		5.9	OK
22.003	121	31	116.305	-0.189	0.000	0.29		19.1	OK
24.000	131	31	116.922	-0.157	0.000	0.20		8.4	OK
24.001	132	31	116.657	-0.126	0.000	0.41		11.0	OK
24.002	133	31	116.504	-0.236	0.000	0.10		12.9	OK
22.004	122	31	116.111	-0.313	0.000	0.19		34.3	OK
22.005	123	31	116.049	-0.279	0.000	0.26		39.2	OK
25.000	139	31	116.731	-0.155	0.000	0.21		5.8	OK
25.001	140	31	116.619	-0.155	0.000	0.21		13.0	OK
22.006	124	31	115.999	-0.263	0.000	0.36		54.8	OK
22.007	125	31	115.788	-0.418	0.000	0.20		54.8	OK
22.008	126	28	115.672	-0.487	0.000	0.11		58.5	OK
22.009	127	26	115.652	-0.411	0.000	0.24		58.4	OK
21.002	149	25	115.641	-0.374	0.000	0.09		67.6	OK
1.020	20	25	115.594	2.040	0.000	5.10		338.4	SURCHARGED
1.021	108	25	114.881	1.336	0.000	1.35		337.8	SURCHARGED
1.022	21	25	114.653	1.244	0.000	1.33		338.9	SURCHARGED
1.023	22	25	114.345	1.124	0.000	1.39		339.8	SURCHARGED

M-EC		Page 142
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	31	119.313	-0.625	0.000	0.02		11.4	OK
26.001	90	31	118.989	-0.618	0.000	0.02		13.5	OK
27.000	200	31	119.555	-0.261	0.000	0.04		6.5	OK
27.001	109	31	118.830	-0.449	0.000	0.05		7.3	OK
26.002	91	31	118.591	-0.657	0.000	0.04		20.8	OK
28.000	TWD27	31	119.381	-0.236	0.000	0.10		13.2	OK
26.003	91A	31	118.452	-0.710	0.000	0.05		36.6	OK
26.004	92	31	118.374	-0.690	0.000	0.06		41.7	OK
26.005	93	31	118.301	-0.702	0.000	0.05		41.7	OK
29.000	TWD29	31	119.402	-0.163	0.000	0.17		6.1	OK
29.001	TWD30	31	119.237	-0.221	0.000	0.16		10.0	OK
29.002	TWD31	31	119.103	-0.245	0.000	0.08		13.4	OK
26.006	94	31	118.187	-0.679	0.000	0.07		55.6	OK
26.007	95	31	118.078	-0.677	0.000	0.07		57.3	OK
30.000	201	31	119.206	-0.235	0.000	0.11		8.9	OK
30.001	202	31	118.970	-0.220	0.000	0.16		12.0	OK
30.002	203	31	118.908	-0.193	0.000	0.28		20.8	OK
30.003	204	31	118.693	-0.290	0.000	0.12		24.4	OK
30.004	117	31	118.423	-0.248	0.000	0.25		26.0	OK
26.008	95A	31	117.967	-0.644	0.000	0.11		88.1	OK
26.009	96	31	117.777	-0.656	0.000	0.09		87.8	OK
26.010	97	31	117.367	-0.671	0.000	0.08		87.4	OK
31.000	121	31	117.011	-0.609	0.000	0.16		56.4	OK
32.000	TWD4	31	120.075	-0.186	0.000	0.07		3.5	OK
32.001	TWD5	31	119.878	-0.171	0.000	0.13		7.7	OK
33.000	TWD16	31	119.501	-0.210	0.000	0.20		12.9	OK
32.002	TWD6	31	119.328	-0.260	0.000	0.21		22.2	OK
34.000	TWD17	31	119.528	-0.179	0.000	0.09		4.8	OK
35.000	TWD18	31	119.456	-0.182	0.000	0.08		3.4	OK
32.003	TWD7	31	119.177	-0.263	0.000	0.20		32.6	OK
32.004	TWD8	31	118.668	-0.315	0.000	0.20		40.2	OK
32.005	TWD9	31	118.554	-0.297	0.000	0.25		43.0	OK
32.006	TWD10	31	118.505	-0.296	0.000	0.26		43.5	OK
36.000	TWD19	31	119.561	-0.160	0.000	0.19		12.8	OK
32.007	TWD11	31	117.378	-0.343	0.000	0.38		57.9	OK
37.000	TWD20	31	119.314	-0.172	0.000	0.13		4.9	OK
37.001	TWD21	31	119.047	-0.224	0.000	0.14		9.8	OK
37.002	TWD22	31	118.858	-0.208	0.000	0.21		13.9	OK
37.003	TWD23	31	118.588	-0.272	0.000	0.17		18.1	OK
37.004	TWD24	31	118.490	-0.296	0.000	0.10		21.1	OK
37.005	TWD25	31	118.004	-0.294	0.000	0.11		24.0	OK
32.008	TWD12	31	117.264	-0.436	0.000	0.25		86.5	OK
38.000	TWD26	31	119.262	-0.188	0.000	0.06		6.3	OK
32.009	TWD13	31	117.147	-0.468	0.000	0.22		95.1	OK
32.010	TWD14	31	117.089	-0.458	0.000	0.24		97.9	OK
32.011	TWD15	31	117.041	-0.454	0.000	0.32		101.5	OK
26.011	98	31	116.772	-0.816	0.000	0.11		244.4	OK
26.012	99	31	116.239	-0.781	0.000	0.15		243.6	OK
26.013	100	31	116.084	-0.645	0.000	0.31		243.7	OK

M-EC		Page 143
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	25	114.194	1.062	0.000	2.03	527.6	SURCHARGED
1.025	24	25	113.355	0.429	0.000	2.05	524.9	SURCHARGED
1.026	25	25	112.727	-0.062	0.000	0.83	526.7	OK
39.000	79	31	121.663	-0.510	0.000	0.01	2.7	OK
39.001	80	31	121.273	-0.486	0.000	0.02	7.6	OK
39.002	81	31	120.706	-0.621	0.000	0.02	9.3	OK
40.000	130	31	121.022	-0.179	0.000	0.09	3.1	OK
41.000	BAR1	31	121.694	-0.111	0.000	0.15	4.3	OK
41.001	131	31	120.870	-0.304	0.000	0.08	7.7	OK
39.003	81A	31	120.541	-0.593	0.000	0.04	21.6	OK
42.000	133	31	120.680	-0.266	0.000	0.03	1.7	OK
39.004	82	31	120.264	-0.641	0.000	0.05	27.4	OK
39.005	83	31	120.184	-0.651	0.000	0.04	27.3	OK
43.000	BAR2	31	121.522	-0.107	0.000	0.18	5.6	OK
43.001	136	31	120.404	-0.288	0.000	0.12	9.1	OK
39.006	83A	31	120.044	-0.626	0.000	0.06	39.1	OK
44.000	206	31	120.491	-0.366	0.000	0.06	5.9	OK
44.001	207	31	120.467	-0.353	0.000	0.06	7.4	OK
44.002	208	31	120.445	-0.331	0.000	0.09	12.6	OK
44.003	209	31	120.413	-0.292	0.000	0.14	12.6	OK
45.000	210	31	120.901	-0.184	0.000	0.08	3.4	OK
45.001	211	31	120.703	-0.239	0.000	0.09	6.2	OK
45.002	212	31	120.455	-0.301	0.000	0.09	9.3	OK
44.004	213	31	120.405	-0.277	0.000	0.27	28.6	OK
44.005	214	31	120.366	-0.279	0.000	0.22	29.9	OK
44.006	215	31	120.320	-0.261	0.000	0.37	34.9	OK
44.007	138	31	120.267	-0.290	0.000	0.27	34.8	OK
39.007	84	31	119.904	-0.621	0.000	0.13	80.8	OK
46.000	BAR4	31	121.554	-0.155	0.000	0.21	7.9	OK
46.001	BAR5	31	121.349	-0.139	0.000	0.31	11.2	OK
47.000	BAR6	31	122.045	-0.106	0.000	0.19	3.2	OK
47.001	BAR7	31	121.714	-0.157	0.000	0.20	7.3	OK
47.002	BAR8	31	121.565	-0.162	0.000	0.17	10.2	OK
46.002	BAR9	31	121.208	-0.171	0.000	0.39	23.8	OK
46.003	BAR10	31	121.087	-0.214	0.000	0.18	30.0	OK
46.004	140	31	120.197	-0.298	0.000	0.25	30.0	OK
39.008	85	31	119.851	-0.617	0.000	0.14	110.6	OK
39.009	86	31	119.716	-0.618	0.000	0.14	114.9	OK
48.000	BAR3	31	120.832	-0.116	0.000	0.11	3.8	OK
48.001	143	31	119.802	-0.372	0.000	0.07	7.9	OK
49.000	216	31	120.421	-0.249	0.000	0.07	11.8	OK
49.001	144	31	119.837	-0.358	0.000	0.09	12.6	OK
39.010	87	31	119.477	-0.675	0.000	0.14	135.1	OK
39.011	88	31	119.352	-0.655	0.000	0.16	157.6	OK
39.012	103	31	119.207	-0.644	0.000	0.18	169.9	OK
50.000	BAR11	31	121.343	-0.102	0.000	0.23	3.9	OK
50.001	BAR12	31	120.978	-0.160	0.000	0.18	9.4	OK
51.000	BAR13	31	120.782	-0.186	0.000	0.05	1.5	OK
50.002	BAR14	31	120.769	-0.150	0.000	0.24	13.1	OK

M-EC		Page 144
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	31	120.848	-0.103	0.000	0.22		3.7	OK
52.001	BAR16	31	120.559	-0.167	0.000	0.15		6.6	OK
50.003	BAR17	31	120.439	-0.179	0.000	0.34		21.2	OK
50.004	BAR18	31	120.367	-0.174	0.000	0.37		23.5	OK
50.005	BAR19	31	120.226	-0.223	0.000	0.15		26.5	OK
50.006	149	31	119.393	-0.332	0.000	0.16		26.5	OK
53.000	TWD1	31	120.427	-0.187	0.000	0.07		2.7	OK
54.000	TWD3	31	120.678	-0.204	0.000	0.02		1.7	OK
53.001	TWD2	31	120.067	-0.179	0.000	0.09		8.3	OK
39.013	104	31	119.019	-0.651	0.000	0.30		203.6	OK
39.014	104A	31	118.901	-0.734	0.000	0.18		203.9	OK
55.000	BAR20	31	121.398	-0.095	0.000	0.29		5.0	OK
55.001	BAR21	31	120.890	-0.163	0.000	0.17		9.3	OK
56.000	BAR22	31	120.452	-0.153	0.000	0.22		8.1	OK
56.001	BAR23	31	120.331	-0.138	0.000	0.32		10.5	OK
55.002	BAR24	31	120.216	-0.198	0.000	0.25		20.5	OK
55.003	BAR25	31	119.940	-0.254	0.000	0.23		24.3	OK
55.004	BAR26	31	119.817	-0.299	0.000	0.09		29.0	OK
39.015	105	31	118.727	-0.747	0.000	0.17		232.9	OK
39.016	106	31	118.553	-1.594	0.000	0.03		231.7	OK
39.017	107	31	115.891	-0.656	0.000	0.12		230.6	OK
1.027	26	25	112.248	-0.660	0.000	0.20		741.4	OK
1.028	27	25	109.423	-0.324	0.000	0.36		742.6	OK
1.029	28	25	106.483	-0.708	0.000	0.16		740.2	OK
1.030	29	25	97.535	-0.942	0.000	0.12		734.4	OK
1.031	30	25	92.985	-0.397	0.000	0.36		737.8	OK
1.032	31	25	91.882	-0.368	0.000	0.46		729.3	OK
1.033	32	29	91.389	-0.734	0.000	0.23		729.0	OK
1.034	33	22	90.925	0.652	0.000	0.90		220.7	SURCHARGED*
57.000	108	35	91.064	-0.822	0.000	0.19		300.3	OK
57.001	109	36	90.894	-0.992	0.000	0.15		285.7	OK
57.002	110	35	90.818	-1.068	0.000	0.11		268.5	OK
1.035	109	20	90.818	0.952	0.000	0.24		58.5	SURCHARGED*
1.036	34	51	86.650	0.000	0.000	0.70		58.4	SURCHARGED*



M-EC		Page 145
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	33	116.603	-0.252	0.000	0.06	4.9	OK
1.001	2	33	116.462	-0.247	0.000	0.07	6.4	OK
1.002	3	33	116.168	-0.320	0.000	0.05	6.4	OK
1.003	4	34	116.053	-0.294	0.000	0.11	18.7	OK
2.000	5	33	118.421	-0.254	0.000	0.06	6.4	OK
2.001	6	33	118.233	-0.228	0.000	0.13	13.7	OK
2.002	6	33	117.980	-0.233	0.000	0.12	15.7	OK
2.003	8	33	117.105	-0.243	0.000	0.08	19.6	OK
3.000	9.1	33	118.262	-0.163	0.000	0.17	9.0	OK
3.001	9	33	116.911	-0.234	0.000	0.11	9.0	OK
3.002	10	34	116.691	-0.292	0.000	0.11	11.9	OK
3.003	11	34	116.539	-0.343	0.000	0.13	22.8	OK
4.000	12	33	117.101	-0.185	0.000	0.07	7.4	OK
3.004	13	34	116.344	-0.416	0.000	0.10	30.2	OK
3.005	14	35	116.171	-0.382	0.000	0.17	41.3	OK
3.006	15	35	116.041	-0.424	0.000	0.19	42.4	OK
2.004	16	35	116.013	-0.430	0.000	0.18	62.0	OK
2.005	17	35	115.917	-0.436	0.000	0.17	70.6	OK
5.000	18	33	116.689	-0.198	0.000	0.04	4.2	OK
2.006	19	35	115.754	-0.425	0.000	0.19	77.9	OK
2.007	20	35	115.591	-0.416	0.000	0.21	82.0	OK
1.004	21	33	115.521	-0.327	0.000	0.29	100.7	OK

M-EC		Page 146
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	28	115.516	-0.271	0.000	0.18		114.4	OK
6.000	23	33	116.759	-0.171	0.000	0.13		6.0	OK
6.001	24	33	116.528	-0.165	0.000	0.16		6.0	OK
6.002	25	33	116.397	-0.228	0.000	0.13		9.7	OK
6.003	26	33	116.109	-0.206	0.000	0.22		13.3	OK
6.004	27	34	115.978	-0.278	0.000	0.15		19.2	OK
6.005	28	35	115.680	-0.303	0.000	0.08		19.2	OK
1.006	29	28	115.469	-0.161	0.000	0.17		142.9	OK
7.000	30	33	118.083	-0.177	0.000	0.10		4.0	OK
7.001	31	33	117.911	-0.184	0.000	0.08		8.9	OK
1.007	8	28	115.387	0.046	0.000	0.19		144.0	SURCHARGED
8.000	60	33	116.670	-0.186	0.000	0.07		2.7	OK
8.001	61	33	116.417	-0.267	0.000	0.03		3.1	OK
8.002	35	33	116.153	-0.275	0.000	0.02		4.5	OK
1.008	10	28	115.228	0.149	0.000	0.43		142.8	SURCHARGED
9.000	62	33	119.068	-0.232	0.000	0.12		9.7	OK
10.000	40	33	118.812	-0.156	0.000	0.47		28.7	OK
9.001	63	33	118.731	-0.248	0.000	0.25		42.2	OK
9.002	64	33	118.228	-0.290	0.000	0.12		53.6	OK
9.003	148	28	115.360	0.094	0.000	0.21		54.8	SURCHARGED
1.009	11	28	115.223	0.163	0.000	0.27		197.1	SURCHARGED
1.010	12	28	115.213	0.237	0.000	0.53		196.3	SURCHARGED
1.011	13	28	115.207	0.253	0.000	0.45		195.0	SURCHARGED
1.012	14	28	115.199	0.278	0.000	0.20		188.6	SURCHARGED
1.013	15	28	115.193	0.323	0.000	0.40		183.4	SURCHARGED
1.014	16	28	115.187	0.340	0.000	0.20		179.7	SURCHARGED
11.000	TWC16	33	117.668	-0.173	0.000	0.12		12.1	OK
11.001	TWC17	34	115.482	-0.178	0.000	0.10		12.1	OK
1.015	17	28	115.181	0.311	0.000	0.13		187.4	SURCHARGED
1.016	18	28	115.175	0.408	0.000	0.14		193.5	SURCHARGED
12.000	TWC1	33	117.625	-0.176	0.000	0.11		4.0	OK
12.001	TWC2	33	117.469	-0.167	0.000	0.15		5.8	OK
12.002	TWC3	33	117.234	-0.136	0.000	0.33		11.5	OK
12.003	TWC4	33	117.163	-0.134	0.000	0.35		11.5	OK
13.000	TWC5	33	118.129	-0.161	0.000	0.18		6.9	OK
13.001	TWC6	33	117.932	-0.136	0.000	0.33		12.5	OK
13.002	TWC7	33	117.744	-0.154	0.000	0.22		15.7	OK
12.004	TWC8	33	117.017	-0.225	0.000	0.31		30.3	OK
12.005	TWC9	33	116.952	-0.216	0.000	0.38		33.2	OK
12.006	TWC10	33	116.862	-0.258	0.000	0.21		34.4	OK
1.017	TWC11	28	115.170	0.503	0.000	0.14		205.5	SURCHARGED
1.018	19	28	115.162	0.569	0.000	0.10		204.4	SURCHARGED
14.000	TWC12	33	117.221	-0.188	0.000	0.07		2.4	OK
14.001	TWC13	33	117.054	-0.198	0.000	0.04		4.5	OK
14.002	TWC14	33	116.105	-0.174	0.000	0.12		9.1	OK
1.019	TWC15	28	115.155	0.827	0.000	0.17		213.4	SURCHARGED
15.000	65	33	117.144	-0.225	0.000	0.14		9.8	OK
16.000	136	33	118.022	-0.192	0.000	0.05		3.1	OK
16.001	137	33	117.717	-0.190	0.000	0.06		3.3	OK

M-EC		Page 147
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	33	117.460	-0.259	0.000	0.05		6.0	OK
15.001	66	33	116.917	-0.269	0.000	0.18		21.1	OK
15.002	67	33	116.785	-0.259	0.000	0.21		23.8	OK
17.000	9	33	117.299	-0.285	0.000	0.01		0.8	OK
17.001	75	33	117.150	-0.247	0.000	0.07		5.6	OK
17.002	76	33	116.752	-0.468	0.000	0.03		10.7	OK
15.003	68	33	116.560	-0.385	0.000	0.16		38.8	OK
15.004	69	33	116.382	-0.435	0.000	0.15		46.9	OK
15.005	70	33	116.314	-0.414	0.000	0.17		46.9	OK
15.006	71	33	116.279	-0.395	0.000	0.18		54.4	OK
18.000	147	33	116.779	-0.192	0.000	0.05		2.0	OK
18.001	112	33	116.606	-0.241	0.000	0.09		4.5	OK
18.002	113	33	116.430	-0.373	0.000	0.05		5.9	OK
19.000	115	33	117.293	-0.201	0.000	0.03		1.3	OK
19.001	116	33	117.036	-0.194	0.000	0.05		3.7	OK
18.003	77	33	116.390	-0.360	0.000	0.09		10.8	OK
20.000	134	33	117.239	-0.193	0.000	0.05		4.3	OK
18.004	135	33	116.319	-0.381	0.000	0.11		18.6	OK
18.005	78	33	116.274	-0.371	0.000	0.12		21.2	OK
15.007	72	33	116.245	-0.353	0.000	0.28		78.5	OK
15.008	73	33	116.159	-0.295	0.000	0.38		81.9	OK
15.009	74	33	116.115	-0.296	0.000	0.50		81.4	OK
15.010	98	33	116.021	-0.364	0.000	0.31		82.1	OK
15.011	99	33	115.903	-0.380	0.000	0.29		82.5	OK
15.012	101	33	115.722	-0.377	0.000	0.30		82.3	OK
21.000	142	33	117.113	-0.176	0.000	0.11		4.9	OK
21.001	143	33	116.695	-0.172	0.000	0.12		7.4	OK
22.000	118	33	117.092	-0.214	0.000	0.01		0.3	OK
22.001	119	33	117.034	-0.186	0.000	0.07		2.3	OK
22.002	120	33	116.986	-0.175	0.000	0.11		6.9	OK
23.000	129	33	116.619	-0.258	0.000	0.05		3.9	OK
23.001	130	33	116.483	-0.259	0.000	0.05		4.7	OK
22.003	121	33	116.292	-0.202	0.000	0.24		15.3	OK
24.000	131	33	116.913	-0.165	0.000	0.16		6.7	OK
24.001	132	33	116.645	-0.137	0.000	0.32		8.8	OK
24.002	133	33	116.497	-0.243	0.000	0.08		10.3	OK
22.004	122	33	116.093	-0.331	0.000	0.15		27.4	OK
22.005	123	33	116.028	-0.300	0.000	0.21		31.4	OK
25.000	139	33	116.723	-0.163	0.000	0.17		4.6	OK
25.001	140	33	116.611	-0.163	0.000	0.17		10.4	OK
22.006	124	33	115.977	-0.285	0.000	0.29		43.8	OK
22.007	125	33	115.766	-0.440	0.000	0.16		43.8	OK
22.008	126	34	115.582	-0.578	0.000	0.09		46.7	OK
22.009	127	34	115.533	-0.530	0.000	0.19		46.7	OK
21.002	149	34	115.393	-0.622	0.000	0.07		54.1	OK
1.020	20	28	115.146	1.592	0.000	4.73		313.6	SURCHARGED
1.021	108	28	114.514	0.969	0.000	1.24		310.4	SURCHARGED
1.022	21	28	114.314	0.905	0.000	1.21		307.7	SURCHARGED
1.023	22	28	114.034	0.813	0.000	1.25		305.8	SURCHARGED

M-EC		Page 148
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	33	119.303	-0.635	0.000	0.01		9.1	OK
26.001	90	33	118.977	-0.630	0.000	0.01		10.8	OK
27.000	200	33	119.551	-0.265	0.000	0.03		5.2	OK
27.001	109	33	118.822	-0.457	0.000	0.04		5.8	OK
26.002	91	33	118.583	-0.665	0.000	0.03		16.6	OK
28.000	TWD27	33	119.374	-0.243	0.000	0.08		10.6	OK
26.003	91A	33	118.441	-0.721	0.000	0.04		29.2	OK
26.004	92	33	118.359	-0.705	0.000	0.05		33.3	OK
26.005	93	33	118.288	-0.715	0.000	0.04		33.3	OK
29.000	TWD29	33	119.395	-0.170	0.000	0.13		4.8	OK
29.001	TWD30	33	119.228	-0.230	0.000	0.12		8.0	OK
29.002	TWD31	33	119.096	-0.252	0.000	0.06		10.7	OK
26.006	94	33	118.169	-0.697	0.000	0.06		44.4	OK
26.007	95	33	118.060	-0.695	0.000	0.06		45.7	OK
30.000	201	33	119.199	-0.242	0.000	0.08		7.1	OK
30.001	202	33	118.961	-0.229	0.000	0.13		9.6	OK
30.002	203	33	118.896	-0.205	0.000	0.22		16.6	OK
30.003	204	33	118.685	-0.298	0.000	0.09		19.5	OK
30.004	117	33	118.409	-0.262	0.000	0.20		20.8	OK
26.008	95A	33	117.951	-0.660	0.000	0.09		70.4	OK
26.009	96	33	117.756	-0.677	0.000	0.07		70.4	OK
26.010	97	33	117.347	-0.691	0.000	0.06		70.3	OK
31.000	121	33	116.987	-0.633	0.000	0.12		45.1	OK
32.000	TWD4	33	120.071	-0.190	0.000	0.06		2.8	OK
32.001	TWD5	33	119.872	-0.177	0.000	0.10		6.2	OK
33.000	TWD16	33	119.490	-0.221	0.000	0.16		10.3	OK
32.002	TWD6	33	119.315	-0.273	0.000	0.17		17.8	OK
34.000	TWD17	33	119.522	-0.185	0.000	0.07		3.9	OK
35.000	TWD18	33	119.450	-0.188	0.000	0.07		2.7	OK
32.003	TWD7	33	119.164	-0.276	0.000	0.16		26.1	OK
32.004	TWD8	33	118.651	-0.332	0.000	0.16		32.1	OK
32.005	TWD9	33	118.538	-0.313	0.000	0.20		34.3	OK
32.006	TWD10	33	118.489	-0.312	0.000	0.21		34.7	OK
36.000	TWD19	33	119.554	-0.167	0.000	0.15		10.2	OK
32.007	TWD11	33	117.348	-0.373	0.000	0.31		46.3	OK
37.000	TWD20	33	119.309	-0.177	0.000	0.10		3.9	OK
37.001	TWD21	33	119.039	-0.232	0.000	0.12		7.8	OK
37.002	TWD22	33	118.847	-0.219	0.000	0.16		11.1	OK
37.003	TWD23	33	118.576	-0.284	0.000	0.14		14.4	OK
37.004	TWD24	33	118.481	-0.305	0.000	0.08		16.9	OK
37.005	TWD25	33	117.996	-0.302	0.000	0.08		19.1	OK
32.008	TWD12	33	117.235	-0.465	0.000	0.20		69.2	OK
38.000	TWD26	33	119.257	-0.193	0.000	0.05		5.0	OK
32.009	TWD13	33	117.114	-0.501	0.000	0.18		76.4	OK
32.010	TWD14	33	117.054	-0.493	0.000	0.19		79.1	OK
32.011	TWD15	33	117.006	-0.489	0.000	0.26		82.4	OK
26.011	98	33	116.750	-0.838	0.000	0.09		197.6	OK
26.012	99	33	116.210	-0.810	0.000	0.12		197.1	OK
26.013	100	33	116.037	-0.692	0.000	0.25		194.7	OK

M-EC		Page 149
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	29	113.890	0.758	0.000	1.77	459.8	459.8	SURCHARGED
1.025	24	29	113.215	0.289	0.000	1.80	461.0	461.0	SURCHARGED
1.026	25	28	112.650	-0.139	0.000	0.72	460.5	460.5	OK
39.000	79	33	121.660	-0.513	0.000	0.00	2.2	2.2	OK
39.001	80	33	121.265	-0.494	0.000	0.01	6.0	6.0	OK
39.002	81	33	120.695	-0.632	0.000	0.01	7.5	7.5	OK
40.000	130	33	121.016	-0.185	0.000	0.07	2.5	2.5	OK
41.000	BAR1	33	121.689	-0.116	0.000	0.12	3.5	3.5	OK
41.001	131	33	120.861	-0.313	0.000	0.07	6.2	6.2	OK
39.003	81A	33	120.534	-0.600	0.000	0.03	17.3	17.3	OK
42.000	133	33	120.677	-0.269	0.000	0.02	1.4	1.4	OK
39.004	82	33	120.252	-0.653	0.000	0.04	21.9	21.9	OK
39.005	83	33	120.175	-0.660	0.000	0.03	21.9	21.9	OK
43.000	BAR2	33	121.517	-0.112	0.000	0.14	4.5	4.5	OK
43.001	136	33	120.395	-0.297	0.000	0.10	7.3	7.3	OK
39.006	83A	33	120.029	-0.641	0.000	0.05	31.3	31.3	OK
44.000	206	33	120.479	-0.378	0.000	0.04	4.7	4.7	OK
44.001	207	33	120.453	-0.366	0.000	0.05	5.9	5.9	OK
44.002	208	33	120.429	-0.347	0.000	0.07	10.1	10.1	OK
44.003	209	33	120.393	-0.312	0.000	0.11	10.1	10.1	OK
45.000	210	33	120.896	-0.189	0.000	0.06	2.7	2.7	OK
45.001	211	33	120.696	-0.246	0.000	0.07	4.9	4.9	OK
45.002	212	33	120.445	-0.311	0.000	0.07	7.4	7.4	OK
44.004	213	33	120.384	-0.298	0.000	0.22	22.9	22.9	OK
44.005	214	33	120.346	-0.300	0.000	0.18	24.0	24.0	OK
44.006	215	33	120.298	-0.283	0.000	0.30	28.0	28.0	OK
44.007	138	33	120.249	-0.308	0.000	0.22	28.0	28.0	OK
39.007	84	33	119.883	-0.642	0.000	0.11	64.9	64.9	OK
46.000	BAR4	33	121.546	-0.163	0.000	0.17	6.3	6.3	OK
46.001	BAR5	33	121.339	-0.149	0.000	0.25	9.0	9.0	OK
47.000	BAR6	33	122.040	-0.111	0.000	0.15	2.6	2.6	OK
47.001	BAR7	33	121.706	-0.165	0.000	0.16	5.8	5.8	OK
47.002	BAR8	33	121.558	-0.169	0.000	0.14	8.2	8.2	OK
46.002	BAR9	33	121.193	-0.186	0.000	0.31	19.0	19.0	OK
46.003	BAR10	33	121.077	-0.224	0.000	0.15	24.0	24.0	OK
46.004	140	33	120.181	-0.314	0.000	0.20	24.0	24.0	OK
39.008	85	33	119.829	-0.639	0.000	0.12	88.8	88.8	OK
39.009	86	33	119.695	-0.639	0.000	0.12	92.4	92.4	OK
48.000	BAR3	33	120.828	-0.120	0.000	0.09	3.0	3.0	OK
48.001	143	33	119.792	-0.382	0.000	0.06	6.3	6.3	OK
49.000	216	33	120.415	-0.255	0.000	0.05	9.4	9.4	OK
49.001	144	33	119.826	-0.369	0.000	0.07	10.0	10.0	OK
39.010	87	33	119.453	-0.699	0.000	0.11	108.7	108.7	OK
39.011	88	33	119.324	-0.683	0.000	0.13	127.0	127.0	OK
39.012	103	33	119.177	-0.674	0.000	0.14	137.3	137.3	OK
50.000	BAR11	33	121.338	-0.107	0.000	0.18	3.1	3.1	OK
50.001	BAR12	33	120.970	-0.168	0.000	0.15	7.5	7.5	OK
51.000	BAR13	33	120.776	-0.192	0.000	0.04	1.2	1.2	OK
50.002	BAR14	33	120.761	-0.158	0.000	0.20	10.5	10.5	OK

M-EC		Page 150
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
52.000	BAR15	33	120.843	-0.108	0.000	0.17		2.9	OK
52.001	BAR16	33	120.552	-0.174	0.000	0.12		5.2	OK
50.003	BAR17	33	120.425	-0.193	0.000	0.28		16.9	OK
50.004	BAR18	33	120.352	-0.189	0.000	0.30		18.8	OK
50.005	BAR19	33	120.218	-0.231	0.000	0.12		21.2	OK
50.006	149	33	119.380	-0.345	0.000	0.13		21.2	OK
53.000	TWD1	33	120.423	-0.191	0.000	0.05		2.1	OK
54.000	TWD3	33	120.674	-0.208	0.000	0.02		1.3	OK
53.001	TWD2	33	120.061	-0.185	0.000	0.07		6.6	OK
39.013	104	33	118.973	-0.697	0.000	0.25		164.3	OK
39.014	104A	33	118.863	-0.772	0.000	0.15		164.2	OK
55.000	BAR20	33	121.391	-0.102	0.000	0.23		4.0	OK
55.001	BAR21	33	120.883	-0.170	0.000	0.14		7.5	OK
56.000	BAR22	33	120.443	-0.162	0.000	0.18		6.5	OK
56.001	BAR23	33	120.321	-0.148	0.000	0.26		8.4	OK
55.002	BAR24	33	120.205	-0.209	0.000	0.20		16.4	OK
55.003	BAR25	33	119.926	-0.268	0.000	0.18		19.4	OK
55.004	BAR26	33	119.808	-0.308	0.000	0.07		23.1	OK
39.015	105	33	118.691	-0.783	0.000	0.14		185.5	OK
39.016	106	33	118.512	-1.635	0.000	0.03		187.7	OK
39.017	107	33	115.853	-0.694	0.000	0.10		187.8	OK
1.027	26	33	112.199	-0.709	0.000	0.16		617.7	OK
1.028	27	33	109.380	-0.367	0.000	0.30		617.0	OK
1.029	28	33	106.439	-0.752	0.000	0.13		613.9	OK
1.030	29	33	97.487	-0.990	0.000	0.10		614.3	OK
1.031	30	32	92.930	-0.452	0.000	0.30		612.9	OK
1.032	31	32	91.809	-0.441	0.000	0.39		613.3	OK
1.033	32	31	91.330	-0.793	0.000	0.19		611.3	OK
1.034	33	20	90.946	0.673	0.000	0.83		203.0	SURCHARGED*
57.000	108	37	90.995	-0.891	0.000	0.15		243.2	OK
57.001	109	40	90.844	-1.042	0.000	0.12		236.8	OK
57.002	110	32	90.843	-1.043	0.000	0.09		224.0	OK
1.035	109	18	90.843	0.977	0.000	0.23		55.8	SURCHARGED*
1.036	34	50	86.650	0.000	0.000	0.70		58.1	SURCHARGED*

M-EC		Page 151
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	41	116.592	-0.263	0.000	0.04	2.9	OK
1.001	2	41	116.449	-0.260	0.000	0.04	3.7	OK
1.002	3	41	116.155	-0.333	0.000	0.03	3.7	OK
1.003	4	41	116.032	-0.315	0.000	0.06	10.9	OK
2.000	5	41	118.410	-0.265	0.000	0.03	3.7	OK
2.001	6	41	118.216	-0.245	0.000	0.08	8.0	OK
2.002	6	41	117.963	-0.250	0.000	0.07	9.1	OK
2.003	8	41	117.090	-0.258	0.000	0.05	11.4	OK
3.000	9.1	41	118.247	-0.178	0.000	0.10	5.2	OK
3.001	9	41	116.894	-0.251	0.000	0.06	5.2	OK
3.002	10	41	116.670	-0.313	0.000	0.06	6.9	OK
3.003	11	41	116.513	-0.369	0.000	0.08	13.2	OK
4.000	12	41	117.091	-0.195	0.000	0.04	4.3	OK
3.004	13	41	116.314	-0.446	0.000	0.06	17.5	OK
3.005	14	41	116.137	-0.416	0.000	0.10	24.0	OK
3.006	15	41	115.997	-0.468	0.000	0.11	24.6	OK
2.004	16	41	115.971	-0.472	0.000	0.10	36.0	OK
2.005	17	41	115.878	-0.475	0.000	0.10	41.0	OK
5.000	18	41	116.684	-0.203	0.000	0.02	2.4	OK
2.006	19	41	115.710	-0.469	0.000	0.11	45.2	OK
2.007	20	41	115.544	-0.463	0.000	0.12	47.6	OK
1.004	21	41	115.412	-0.436	0.000	0.17	58.5	OK

M-EC		Page 152
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	41	115.200	-0.587	0.000	0.11		66.6	OK
6.000	23	41	116.746	-0.184	0.000	0.08		3.5	OK
6.001	24	41	116.514	-0.179	0.000	0.09		3.5	OK
6.002	25	41	116.379	-0.246	0.000	0.08		5.7	OK
6.003	26	41	116.085	-0.230	0.000	0.13		7.7	OK
6.004	27	41	115.956	-0.300	0.000	0.09		11.2	OK
6.005	28	41	115.660	-0.323	0.000	0.05		11.2	OK
1.006	29	41	115.038	-0.592	0.000	0.10		83.5	OK
7.000	30	41	118.070	-0.190	0.000	0.06		2.3	OK
7.001	31	41	117.900	-0.195	0.000	0.04		5.2	OK
1.007	8	41	114.763	-0.578	0.000	0.12		89.7	OK
8.000	60	41	116.660	-0.196	0.000	0.04		1.5	OK
8.001	61	41	116.408	-0.276	0.000	0.02		1.8	OK
8.002	35	41	116.143	-0.285	0.000	0.01		2.6	OK
1.008	10	41	114.517	-0.562	0.000	0.28		92.3	OK
9.000	62	41	119.051	-0.249	0.000	0.07		5.7	OK
10.000	40	41	118.774	-0.194	0.000	0.27		16.6	OK
9.001	63	41	118.699	-0.280	0.000	0.15		24.5	OK
9.002	64	41	118.206	-0.312	0.000	0.07		31.1	OK
9.003	148	41	114.921	-0.345	0.000	0.12		31.9	OK
1.009	11	41	114.484	-0.576	0.000	0.17		126.3	OK
1.010	12	41	114.439	-0.537	0.000	0.34		128.3	OK
1.011	13	41	114.388	-0.566	0.000	0.30		129.1	OK
1.012	14	41	114.221	-0.700	0.000	0.14		129.9	OK
1.013	15	41	114.200	-0.670	0.000	0.28		129.9	OK
1.014	16	41	114.122	-0.725	0.000	0.14		129.4	OK
11.000	TWC16	41	117.655	-0.186	0.000	0.07		7.0	OK
11.001	TWC17	41	115.469	-0.191	0.000	0.06		7.0	OK
1.015	17	41	114.094	-0.776	0.000	0.09		134.7	OK
1.016	18	41	114.067	-0.700	0.000	0.10		129.2	OK
12.000	TWC1	41	117.612	-0.189	0.000	0.06		2.3	OK
12.001	TWC2	41	117.456	-0.180	0.000	0.09		3.4	OK
12.002	TWC3	41	117.212	-0.158	0.000	0.19		6.7	OK
12.003	TWC4	41	117.140	-0.157	0.000	0.20		6.7	OK
13.000	TWC5	41	118.114	-0.176	0.000	0.11		4.0	OK
13.001	TWC6	41	117.910	-0.158	0.000	0.19		7.2	OK
13.002	TWC7	41	117.726	-0.172	0.000	0.13		9.1	OK
12.004	TWC8	41	116.979	-0.263	0.000	0.18		17.6	OK
12.005	TWC9	41	116.911	-0.257	0.000	0.22		19.3	OK
12.006	TWC10	41	116.832	-0.288	0.000	0.12		19.9	OK
1.017	TWC11	41	114.041	-0.626	0.000	0.10		143.6	OK
1.018	19	41	114.017	-0.576	0.000	0.07		144.0	OK
14.000	TWC12	41	117.212	-0.197	0.000	0.04		1.4	OK
14.001	TWC13	41	117.049	-0.203	0.000	0.02		2.6	OK
14.002	TWC14	41	116.092	-0.187	0.000	0.07		5.3	OK
1.019	TWC15	41	113.990	-0.338	0.000	0.12		150.5	OK
15.000	65	41	117.126	-0.243	0.000	0.08		5.7	OK
16.000	136	41	118.015	-0.199	0.000	0.03		1.8	OK
16.001	137	41	117.709	-0.198	0.000	0.03		1.9	OK



M-EC		Page 153
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	41	117.452	-0.267	0.000	0.03		3.5	OK
15.001	66	41	116.891	-0.295	0.000	0.10		12.2	OK
15.002	67	41	116.756	-0.288	0.000	0.12		13.8	OK
17.000	9	41	117.292	-0.292	0.000	0.01		0.5	OK
17.001	75	41	117.136	-0.261	0.000	0.04		3.2	OK
17.002	76	41	116.733	-0.487	0.000	0.02		6.2	OK
15.003	68	41	116.527	-0.418	0.000	0.09		22.5	OK
15.004	69	41	116.339	-0.478	0.000	0.09		27.2	OK
15.005	70	41	116.261	-0.467	0.000	0.10		27.2	OK
15.006	71	41	116.219	-0.455	0.000	0.10		31.7	OK
18.000	147	41	116.771	-0.200	0.000	0.03		1.1	OK
18.001	112	41	116.590	-0.257	0.000	0.05		2.6	OK
18.002	113	41	116.409	-0.394	0.000	0.03		3.4	OK
19.000	115	41	117.285	-0.209	0.000	0.02		0.7	OK
19.001	116	41	117.030	-0.200	0.000	0.03		2.1	OK
18.003	77	41	116.364	-0.386	0.000	0.05		6.3	OK
20.000	134	41	117.232	-0.200	0.000	0.03		2.5	OK
18.004	135	41	116.280	-0.420	0.000	0.06		10.8	OK
18.005	78	41	116.224	-0.421	0.000	0.07		12.4	OK
15.007	72	41	116.177	-0.421	0.000	0.16		46.0	OK
15.008	73	41	116.078	-0.376	0.000	0.23		48.5	OK
15.009	74	41	116.034	-0.377	0.000	0.30		48.5	OK
15.010	98	41	115.963	-0.422	0.000	0.18		48.5	OK
15.011	99	41	115.849	-0.434	0.000	0.17		48.4	OK
15.012	101	41	115.667	-0.432	0.000	0.17		48.3	OK
21.000	142	41	117.100	-0.189	0.000	0.06		2.9	OK
21.001	143	41	116.682	-0.185	0.000	0.07		4.3	OK
22.000	118	41	117.088	-0.218	0.000	0.01		0.2	OK
22.001	119	41	117.024	-0.196	0.000	0.04		1.3	OK
22.002	120	41	116.973	-0.188	0.000	0.06		4.0	OK
23.000	129	41	116.610	-0.267	0.000	0.03		2.3	OK
23.001	130	41	116.475	-0.267	0.000	0.03		2.8	OK
22.003	121	41	116.267	-0.227	0.000	0.14		8.9	OK
24.000	131	41	116.900	-0.179	0.000	0.09		3.9	OK
24.001	132	41	116.623	-0.159	0.000	0.19		5.1	OK
24.002	133	41	116.482	-0.258	0.000	0.05		6.0	OK
22.004	122	41	116.064	-0.361	0.000	0.09		15.9	OK
22.005	123	41	115.989	-0.339	0.000	0.12		18.2	OK
25.000	139	41	116.708	-0.178	0.000	0.10		2.7	OK
25.001	140	41	116.596	-0.178	0.000	0.10		6.0	OK
22.006	124	41	115.935	-0.327	0.000	0.17		25.4	OK
22.007	125	41	115.729	-0.477	0.000	0.09		25.4	OK
22.008	126	41	115.534	-0.626	0.000	0.05		27.1	OK
22.009	127	41	115.478	-0.585	0.000	0.11		27.1	OK
21.002	149	41	115.361	-0.654	0.000	0.04		31.4	OK
1.020	20	41	113.949	0.395	0.000	3.33		220.7	SURCHARGED
1.021	108	41	113.628	0.083	0.000	0.88		220.8	SURCHARGED
1.022	21	41	113.525	0.116	0.000	0.87		222.1	SURCHARGED
1.023	22	41	113.390	0.169	0.000	0.91		223.1	SURCHARGED

M-EC		Page 154
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	41	119.286	-0.652	0.000	0.01		5.3	OK
26.001	90	41	118.958	-0.649	0.000	0.01		6.3	OK
27.000	200	41	119.543	-0.273	0.000	0.02		3.0	OK
27.001	109	41	118.808	-0.471	0.000	0.02		3.4	OK
26.002	91	41	118.559	-0.689	0.000	0.02		9.6	OK
28.000	TWD27	41	119.359	-0.258	0.000	0.05		6.1	OK
26.003	91A	41	118.421	-0.741	0.000	0.02		17.0	OK
26.004	92	41	118.332	-0.732	0.000	0.03		19.3	OK
26.005	93	41	118.265	-0.738	0.000	0.03		19.3	OK
29.000	TWD29	41	119.382	-0.183	0.000	0.08		2.8	OK
29.001	TWD30	41	119.211	-0.247	0.000	0.07		4.6	OK
29.002	TWD31	41	119.085	-0.263	0.000	0.04		6.2	OK
26.006	94	41	118.139	-0.727	0.000	0.03		25.8	OK
26.007	95	41	118.029	-0.726	0.000	0.03		26.5	OK
30.000	201	41	119.183	-0.258	0.000	0.05		4.1	OK
30.001	202	41	118.944	-0.246	0.000	0.07		5.6	OK
30.002	203	41	118.872	-0.229	0.000	0.13		9.6	OK
30.003	204	41	118.664	-0.319	0.000	0.05		11.3	OK
30.004	117	41	118.380	-0.291	0.000	0.12		12.1	OK
26.008	95A	41	117.905	-0.706	0.000	0.05		40.8	OK
26.009	96	41	117.718	-0.715	0.000	0.04		40.8	OK
26.010	97	41	117.315	-0.723	0.000	0.04		40.8	OK
31.000	121	41	116.940	-0.680	0.000	0.07		26.2	OK
32.000	TWD4	41	120.063	-0.198	0.000	0.03		1.6	OK
32.001	TWD5	41	119.860	-0.189	0.000	0.06		3.6	OK
33.000	TWD16	41	119.472	-0.239	0.000	0.09		6.0	OK
32.002	TWD6	41	119.291	-0.297	0.000	0.10		10.3	OK
34.000	TWD17	41	119.512	-0.195	0.000	0.04		2.2	OK
35.000	TWD18	41	119.441	-0.197	0.000	0.04		1.6	OK
32.003	TWD7	41	119.141	-0.299	0.000	0.09		15.1	OK
32.004	TWD8	41	118.624	-0.359	0.000	0.09		18.7	OK
32.005	TWD9	41	118.503	-0.348	0.000	0.12		19.9	OK
32.006	TWD10	41	118.454	-0.347	0.000	0.12		20.1	OK
36.000	TWD19	41	119.540	-0.181	0.000	0.09		5.9	OK
32.007	TWD11	41	117.291	-0.430	0.000	0.18		26.9	OK
37.000	TWD20	41	119.296	-0.190	0.000	0.06		2.3	OK
37.001	TWD21	41	119.021	-0.250	0.000	0.07		4.5	OK
37.002	TWD22	41	118.828	-0.238	0.000	0.10		6.4	OK
37.003	TWD23	41	118.555	-0.305	0.000	0.08		8.4	OK
37.004	TWD24	41	118.463	-0.323	0.000	0.05		9.8	OK
37.005	TWD25	41	117.976	-0.322	0.000	0.05		11.1	OK
32.008	TWD12	41	117.180	-0.520	0.000	0.11		40.2	OK
38.000	TWD26	41	119.250	-0.200	0.000	0.03		2.9	OK
32.009	TWD13	41	117.050	-0.565	0.000	0.10		44.4	OK
32.010	TWD14	41	116.988	-0.559	0.000	0.11		46.1	OK
32.011	TWD15	41	116.940	-0.555	0.000	0.15		48.2	OK
26.011	98	41	116.692	-0.896	0.000	0.05		115.2	OK
26.012	99	41	116.151	-0.869	0.000	0.07		115.2	OK
26.013	100	41	115.946	-0.783	0.000	0.15		115.2	OK

M-EC		Page 155
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	41	113.322	0.190	0.000	1.26	325.9	SURCHARGED
1.025	24	41	112.993	0.067	0.000	1.28	326.3	SURCHARGED
1.026	25	41	112.604	-0.185	0.000	0.51	326.4	OK
39.000	79	41	121.655	-0.518	0.000	0.00	1.3	OK
39.001	80	41	121.252	-0.507	0.000	0.01	3.5	OK
39.002	81	41	120.677	-0.650	0.000	0.01	4.3	OK
40.000	130	41	121.006	-0.195	0.000	0.04	1.5	OK
41.000	BAR1	41	121.681	-0.124	0.000	0.07	2.0	OK
41.001	131	41	120.846	-0.328	0.000	0.04	3.6	OK
39.003	81A	41	120.512	-0.622	0.000	0.02	10.0	OK
42.000	133	41	120.666	-0.280	0.000	0.01	0.8	OK
39.004	82	41	120.233	-0.672	0.000	0.02	12.7	OK
39.005	83	41	120.156	-0.679	0.000	0.02	12.7	OK
43.000	BAR2	41	121.508	-0.121	0.000	0.08	2.6	OK
43.001	136	41	120.375	-0.317	0.000	0.06	4.2	OK
39.006	83A	41	120.005	-0.665	0.000	0.03	18.2	OK
44.000	206	41	120.460	-0.397	0.000	0.03	2.7	OK
44.001	207	41	120.428	-0.391	0.000	0.03	3.4	OK
44.002	208	41	120.399	-0.377	0.000	0.04	5.9	OK
44.003	209	41	120.355	-0.349	0.000	0.06	5.9	OK
45.000	210	41	120.887	-0.198	0.000	0.03	1.6	OK
45.001	211	41	120.682	-0.260	0.000	0.04	2.9	OK
45.002	212	41	120.429	-0.327	0.000	0.04	4.3	OK
44.004	213	41	120.345	-0.337	0.000	0.13	13.3	OK
44.005	214	41	120.306	-0.339	0.000	0.10	14.0	OK
44.006	215	41	120.256	-0.325	0.000	0.17	16.3	OK
44.007	138	41	120.213	-0.344	0.000	0.13	16.3	OK
39.007	84	41	119.836	-0.689	0.000	0.06	37.8	OK
46.000	BAR4	41	121.531	-0.178	0.000	0.10	3.7	OK
46.001	BAR5	41	121.320	-0.168	0.000	0.15	5.2	OK
47.000	BAR6	41	122.031	-0.120	0.000	0.09	1.5	OK
47.001	BAR7	41	121.692	-0.179	0.000	0.09	3.4	OK
47.002	BAR8	41	121.544	-0.183	0.000	0.08	4.7	OK
46.002	BAR9	41	121.164	-0.215	0.000	0.18	11.0	OK
46.003	BAR10	41	121.059	-0.242	0.000	0.09	13.9	OK
46.004	140	41	120.146	-0.349	0.000	0.12	13.9	OK
39.008	85	41	119.782	-0.686	0.000	0.07	51.7	OK
39.009	86	41	119.648	-0.686	0.000	0.07	53.8	OK
48.000	BAR3	41	120.820	-0.128	0.000	0.05	1.8	OK
48.001	143	41	119.777	-0.397	0.000	0.03	3.7	OK
49.000	216	41	120.405	-0.265	0.000	0.03	5.5	OK
49.001	144	41	119.805	-0.390	0.000	0.04	5.8	OK
39.010	87	41	119.402	-0.750	0.000	0.07	63.3	OK
39.011	88	41	119.272	-0.735	0.000	0.08	74.1	OK
39.012	103	41	119.125	-0.726	0.000	0.08	80.2	OK
50.000	BAR11	41	121.327	-0.118	0.000	0.10	1.8	OK
50.001	BAR12	41	120.957	-0.181	0.000	0.09	4.4	OK
51.000	BAR13	41	120.767	-0.201	0.000	0.02	0.7	OK
50.002	BAR14	41	120.744	-0.175	0.000	0.11	6.1	OK

M-EC		Page 156
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 960 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	41	120.833	-0.118	0.000	0.10		1.7	OK
52.001	BAR16	41	120.540	-0.186	0.000	0.07		3.0	OK
50.003	BAR17	41	120.398	-0.220	0.000	0.16		9.8	OK
50.004	BAR18	41	120.324	-0.217	0.000	0.17		10.9	OK
50.005	BAR19	41	120.201	-0.248	0.000	0.07		12.3	OK
50.006	149	41	119.354	-0.371	0.000	0.07		12.3	OK
53.000	TWD1	41	120.415	-0.199	0.000	0.03		1.2	OK
54.000	TWD3	41	120.667	-0.215	0.000	0.01		0.8	OK
53.001	TWD2	41	120.051	-0.195	0.000	0.04		3.8	OK
39.013	104	41	118.884	-0.786	0.000	0.14		96.4	OK
39.014	104A	41	118.798	-0.837	0.000	0.09		96.9	OK
55.000	BAR20	41	121.379	-0.114	0.000	0.13		2.3	OK
55.001	BAR21	41	120.870	-0.183	0.000	0.08		4.3	OK
56.000	BAR22	41	120.428	-0.177	0.000	0.10		3.8	OK
56.001	BAR23	41	120.301	-0.168	0.000	0.15		4.9	OK
55.002	BAR24	41	120.182	-0.232	0.000	0.12		9.5	OK
55.003	BAR25	41	119.900	-0.294	0.000	0.11		11.3	OK
55.004	BAR26	41	119.791	-0.325	0.000	0.04		13.4	OK
39.015	105	41	118.625	-0.849	0.000	0.08		110.3	OK
39.016	106	41	118.431	-1.716	0.000	0.01		110.2	OK
39.017	107	41	115.774	-0.773	0.000	0.06		109.8	OK
1.027	26	41	112.114	-0.794	0.000	0.11		434.2	OK
1.028	27	41	109.305	-0.442	0.000	0.21		434.7	OK
1.029	28	41	106.363	-0.828	0.000	0.09		434.9	OK
1.030	29	41	97.401	-1.076	0.000	0.07		434.7	OK
1.031	30	41	92.837	-0.545	0.000	0.21		432.9	OK
1.032	31	42	91.687	-0.563	0.000	0.27		429.5	OK
1.033	32	42	91.213	-0.910	0.000	0.14		431.6	OK
1.034	33	21	90.939	0.666	0.000	0.69		168.8	SURCHARGED*
57.000	108	44	90.832	-1.054	0.000	0.09		143.2	OK
57.001	109	41	90.826	-1.060	0.000	0.07		141.3	OK
57.002	110	33	90.825	-1.061	0.000	0.05		133.7	OK
1.035	109	19	90.822	0.956	0.000	0.26		62.5	SURCHARGED*
1.036	34	49	86.650	0.000	0.000	0.69		57.6	SURCHARGED*

M-EC		Page 157
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	48	116.587	-0.268	0.000	0.03	2.1	OK
1.001	2	48	116.443	-0.266	0.000	0.03	2.7	OK
1.002	3	48	116.151	-0.337	0.000	0.02	2.7	OK
1.003	4	48	116.023	-0.324	0.000	0.04	7.9	OK
2.000	5	48	118.406	-0.269	0.000	0.02	2.7	OK
2.001	6	48	118.206	-0.255	0.000	0.06	5.8	OK
2.002	6	48	117.955	-0.258	0.000	0.05	6.6	OK
2.003	8	48	117.084	-0.264	0.000	0.03	8.3	OK
3.000	9.1	48	118.239	-0.186	0.000	0.07	3.8	OK
3.001	9	48	116.886	-0.259	0.000	0.05	3.8	OK
3.002	10	48	116.660	-0.323	0.000	0.05	5.0	OK
3.003	11	48	116.499	-0.383	0.000	0.05	9.6	OK
4.000	12	48	117.087	-0.199	0.000	0.03	3.1	OK
3.004	13	48	116.303	-0.457	0.000	0.04	12.7	OK
3.005	14	48	116.119	-0.434	0.000	0.07	17.4	OK
3.006	15	48	115.977	-0.488	0.000	0.08	17.9	OK
2.004	16	48	115.951	-0.492	0.000	0.08	26.1	OK
2.005	17	48	115.858	-0.495	0.000	0.07	29.8	OK
5.000	18	48	116.678	-0.209	0.000	0.01	1.8	OK
2.006	19	48	115.691	-0.488	0.000	0.08	32.8	OK
2.007	20	48	115.525	-0.482	0.000	0.09	34.6	OK
1.004	21	48	115.387	-0.461	0.000	0.12	42.5	OK

M-EC		Page 158
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
1.005	22	48	115.175	-0.612	0.000	0.08		48.4	OK
6.000	23	48	116.739	-0.191	0.000	0.06		2.5	OK
6.001	24	48	116.506	-0.187	0.000	0.07		2.5	OK
6.002	25	48	116.370	-0.255	0.000	0.06		4.1	OK
6.003	26	48	116.076	-0.239	0.000	0.09		5.6	OK
6.004	27	48	115.943	-0.313	0.000	0.06		8.1	OK
6.005	28	48	115.653	-0.330	0.000	0.03		8.1	OK
1.006	29	48	115.012	-0.618	0.000	0.07		60.7	OK
7.000	30	48	118.065	-0.195	0.000	0.04		1.7	OK
7.001	31	48	117.896	-0.199	0.000	0.03		3.8	OK
1.007	8	48	114.739	-0.602	0.000	0.09		65.2	OK
8.000	60	48	116.656	-0.200	0.000	0.03		1.1	OK
8.001	61	48	116.401	-0.283	0.000	0.01		1.3	OK
8.002	35	48	116.139	-0.289	0.000	0.01		1.9	OK
1.008	10	48	114.462	-0.617	0.000	0.20		67.0	OK
9.000	62	48	119.043	-0.257	0.000	0.05		4.1	OK
10.000	40	48	118.758	-0.210	0.000	0.20		12.1	OK
9.001	63	48	118.685	-0.294	0.000	0.11		17.8	OK
9.002	64	48	118.196	-0.322	0.000	0.05		22.6	OK
9.003	148	48	114.907	-0.359	0.000	0.09		23.2	OK
1.009	11	48	114.429	-0.631	0.000	0.12		91.7	OK
1.010	12	48	114.379	-0.597	0.000	0.25		93.1	OK
1.011	13	48	114.336	-0.618	0.000	0.22		93.8	OK
1.012	14	48	114.164	-0.757	0.000	0.10		94.4	OK
1.013	15	48	114.142	-0.728	0.000	0.21		94.4	OK
1.014	16	48	114.021	-0.826	0.000	0.10		94.4	OK
11.000	TWC16	48	117.649	-0.192	0.000	0.05		5.1	OK
11.001	TWC17	48	115.464	-0.196	0.000	0.04		5.1	OK
1.015	17	47	113.928	-0.942	0.000	0.07		99.4	OK
1.016	18	47	113.849	-0.918	0.000	0.07		99.2	OK
12.000	TWC1	48	117.607	-0.194	0.000	0.05		1.7	OK
12.001	TWC2	48	117.448	-0.188	0.000	0.06		2.4	OK
12.002	TWC3	48	117.201	-0.169	0.000	0.14		4.9	OK
12.003	TWC4	48	117.129	-0.168	0.000	0.15		4.9	OK
13.000	TWC5	48	118.106	-0.184	0.000	0.08		2.9	OK
13.001	TWC6	48	117.899	-0.169	0.000	0.14		5.3	OK
13.002	TWC7	48	117.719	-0.179	0.000	0.09		6.6	OK
12.004	TWC8	48	116.960	-0.282	0.000	0.13		12.8	OK
12.005	TWC9	48	116.892	-0.276	0.000	0.16		14.0	OK
12.006	TWC10	48	116.820	-0.300	0.000	0.09		14.5	OK
1.017	TWC11	47	113.792	-0.875	0.000	0.08		113.2	OK
1.018	19	47	113.765	-0.828	0.000	0.05		112.8	OK
14.000	TWC12	48	117.209	-0.200	0.000	0.03		1.0	OK
14.001	TWC13	48	117.043	-0.209	0.000	0.02		1.9	OK
14.002	TWC14	48	116.086	-0.193	0.000	0.05		3.8	OK
1.019	TWC15	47	113.747	-0.581	0.000	0.09		115.9	OK
15.000	65	48	117.116	-0.253	0.000	0.06		4.1	OK
16.000	136	48	118.012	-0.202	0.000	0.02		1.3	OK
16.001	137	48	117.706	-0.201	0.000	0.02		1.4	OK

M-EC		Page 159
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	48	117.447	-0.272	0.000	0.02		2.5	OK
15.001	66	48	116.879	-0.307	0.000	0.08		8.9	OK
15.002	67	48	116.744	-0.300	0.000	0.09		10.0	OK
17.000	9	48	117.290	-0.294	0.000	0.00		0.4	OK
17.001	75	48	117.131	-0.266	0.000	0.03		2.4	OK
17.002	76	48	116.723	-0.497	0.000	0.01		4.5	OK
15.003	68	48	116.509	-0.436	0.000	0.07		16.4	OK
15.004	69	48	116.318	-0.499	0.000	0.06		19.8	OK
15.005	70	48	116.239	-0.489	0.000	0.07		19.8	OK
15.006	71	48	116.195	-0.479	0.000	0.07		23.0	OK
18.000	147	48	116.769	-0.202	0.000	0.02		0.8	OK
18.001	112	48	116.584	-0.263	0.000	0.04		1.9	OK
18.002	113	48	116.402	-0.401	0.000	0.02		2.5	OK
19.000	115	48	117.281	-0.213	0.000	0.01		0.5	OK
19.001	116	48	117.026	-0.204	0.000	0.02		1.5	OK
18.003	77	48	116.355	-0.395	0.000	0.04		4.5	OK
20.000	134	48	117.229	-0.203	0.000	0.02		1.8	OK
18.004	135	48	116.260	-0.440	0.000	0.05		7.9	OK
18.005	78	48	116.201	-0.444	0.000	0.05		9.0	OK
15.007	72	48	116.146	-0.452	0.000	0.12		33.4	OK
15.008	73	48	116.043	-0.411	0.000	0.17		35.2	OK
15.009	74	48	115.999	-0.412	0.000	0.22		35.2	OK
15.010	98	48	115.935	-0.450	0.000	0.13		35.2	OK
15.011	99	48	115.823	-0.460	0.000	0.12		35.2	OK
15.012	101	48	115.641	-0.458	0.000	0.13		35.2	OK
21.000	142	48	117.095	-0.194	0.000	0.05		2.1	OK
21.001	143	48	116.675	-0.192	0.000	0.05		3.1	OK
22.000	118	48	117.086	-0.220	0.000	0.00		0.1	OK
22.001	119	48	117.021	-0.199	0.000	0.03		1.0	OK
22.002	120	48	116.967	-0.194	0.000	0.05		2.9	OK
23.000	129	48	116.606	-0.271	0.000	0.02		1.6	OK
23.001	130	48	116.470	-0.272	0.000	0.02		2.0	OK
22.003	121	48	116.257	-0.237	0.000	0.10		6.4	OK
24.000	131	48	116.892	-0.187	0.000	0.07		2.8	OK
24.001	132	48	116.612	-0.170	0.000	0.14		3.7	OK
24.002	133	48	116.476	-0.264	0.000	0.03		4.4	OK
22.004	122	48	116.048	-0.377	0.000	0.06		11.6	OK
22.005	123	48	115.972	-0.356	0.000	0.09		13.2	OK
25.000	139	48	116.701	-0.186	0.000	0.07		2.0	OK
25.001	140	48	116.588	-0.186	0.000	0.07		4.4	OK
22.006	124	48	115.916	-0.346	0.000	0.12		18.4	OK
22.007	125	48	115.708	-0.499	0.000	0.07		18.4	OK
22.008	126	48	115.512	-0.647	0.000	0.04		19.7	OK
22.009	127	48	115.454	-0.609	0.000	0.08		19.7	OK
21.002	149	48	115.349	-0.666	0.000	0.03		22.8	OK
1.020	20	47	113.722	0.168	0.000	2.62		173.5	SURCHARGED
1.021	108	47	113.403	-0.142	0.000	0.69		172.7	OK
1.022	21	47	113.264	-0.145	0.000	0.68		172.8	OK
1.023	22	47	113.128	-0.093	0.000	0.71		174.4	OK

M-EC		Page 160
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	48	119.280	-0.658	0.000	0.01		3.8	OK
26.001	90	48	118.951	-0.656	0.000	0.01		4.5	OK
27.000	200	48	119.536	-0.280	0.000	0.01		2.2	OK
27.001	109	48	118.796	-0.483	0.000	0.02		2.5	OK
26.002	91	48	118.542	-0.706	0.000	0.01		7.0	OK
28.000	TWD27	48	119.353	-0.264	0.000	0.03		4.5	OK
26.003	91A	48	118.400	-0.762	0.000	0.02		12.3	OK
26.004	92	48	118.322	-0.742	0.000	0.02		14.0	OK
26.005	93	48	118.249	-0.754	0.000	0.02		14.0	OK
29.000	TWD29	48	119.374	-0.191	0.000	0.06		2.0	OK
29.001	TWD30	48	119.202	-0.256	0.000	0.05		3.4	OK
29.002	TWD31	48	119.080	-0.268	0.000	0.03		4.5	OK
26.006	94	48	118.128	-0.738	0.000	0.02		18.7	OK
26.007	95	48	118.017	-0.738	0.000	0.03		19.3	OK
30.000	201	48	119.177	-0.264	0.000	0.04		3.0	OK
30.001	202	48	118.935	-0.255	0.000	0.05		4.0	OK
30.002	203	48	118.862	-0.239	0.000	0.09		7.0	OK
30.003	204	48	118.656	-0.327	0.000	0.04		8.2	OK
30.004	117	48	118.369	-0.302	0.000	0.08		8.8	OK
26.008	95A	48	117.888	-0.723	0.000	0.04		29.7	OK
26.009	96	48	117.703	-0.730	0.000	0.03		29.7	OK
26.010	97	48	117.302	-0.736	0.000	0.03		29.7	OK
31.000	121	48	116.916	-0.704	0.000	0.05		19.0	OK
32.000	TWD4	48	120.060	-0.201	0.000	0.02		1.2	OK
32.001	TWD5	48	119.854	-0.195	0.000	0.04		2.6	OK
33.000	TWD16	48	119.461	-0.250	0.000	0.07		4.3	OK
32.002	TWD6	48	119.278	-0.310	0.000	0.07		7.5	OK
34.000	TWD17	48	119.508	-0.199	0.000	0.03		1.6	OK
35.000	TWD18	48	119.438	-0.200	0.000	0.03		1.1	OK
32.003	TWD7	48	119.128	-0.312	0.000	0.07		11.0	OK
32.004	TWD8	48	118.608	-0.375	0.000	0.07		13.5	OK
32.005	TWD9	48	118.489	-0.362	0.000	0.09		14.5	OK
32.006	TWD10	48	118.440	-0.361	0.000	0.09		14.6	OK
36.000	TWD19	48	119.532	-0.189	0.000	0.06		4.3	OK
32.007	TWD11	48	117.264	-0.457	0.000	0.13		19.5	OK
37.000	TWD20	48	119.291	-0.195	0.000	0.04		1.6	OK
37.001	TWD21	48	119.013	-0.258	0.000	0.05		3.3	OK
37.002	TWD22	48	118.817	-0.249	0.000	0.07		4.7	OK
37.003	TWD23	48	118.543	-0.317	0.000	0.06		6.1	OK
37.004	TWD24	48	118.456	-0.330	0.000	0.03		7.1	OK
37.005	TWD25	48	117.969	-0.329	0.000	0.04		8.1	OK
32.008	TWD12	48	117.157	-0.543	0.000	0.08		29.2	OK
38.000	TWD26	48	119.248	-0.202	0.000	0.02		2.1	OK
32.009	TWD13	48	117.023	-0.592	0.000	0.07		32.2	OK
32.010	TWD14	48	116.960	-0.587	0.000	0.08		33.5	OK
32.011	TWD15	48	116.911	-0.584	0.000	0.11		35.0	OK
26.011	98	48	116.670	-0.918	0.000	0.04		83.6	OK
26.012	99	48	116.121	-0.899	0.000	0.05		83.6	OK
26.013	100	48	115.907	-0.822	0.000	0.11		83.6	OK



M-EC		Page 161
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
1.024	23	46	113.073	-0.059	0.000	0.98		253.2	OK
1.025	24	46	112.870	-0.056	0.000	1.00		255.0	OK
1.026	25	46	112.578	-0.211	0.000	0.40		255.2	OK
39.000	79	48	121.653	-0.520	0.000	0.00		0.9	OK
39.001	80	48	121.247	-0.512	0.000	0.01		2.5	OK
39.002	81	48	120.670	-0.657	0.000	0.01		3.1	OK
40.000	130	48	121.002	-0.199	0.000	0.03		1.1	OK
41.000	BAR1	48	121.677	-0.128	0.000	0.05		1.5	OK
41.001	131	48	120.840	-0.334	0.000	0.03		2.6	OK
39.003	81A	48	120.497	-0.637	0.000	0.01		7.3	OK
42.000	133	48	120.661	-0.285	0.000	0.01		0.6	OK
39.004	82	48	120.217	-0.688	0.000	0.02		9.2	OK
39.005	83	48	120.137	-0.698	0.000	0.01		9.2	OK
43.000	BAR2	48	121.503	-0.126	0.000	0.06		1.9	OK
43.001	136	48	120.366	-0.326	0.000	0.04		3.1	OK
39.006	83A	48	119.996	-0.674	0.000	0.02		13.2	OK
44.000	206	48	120.453	-0.404	0.000	0.02		2.0	OK
44.001	207	48	120.419	-0.400	0.000	0.02		2.5	OK
44.002	208	48	120.387	-0.390	0.000	0.03		4.3	OK
44.003	209	48	120.339	-0.365	0.000	0.05		4.3	OK
45.000	210	48	120.884	-0.201	0.000	0.03		1.1	OK
45.001	211	48	120.677	-0.265	0.000	0.03		2.1	OK
45.002	212	48	120.423	-0.333	0.000	0.03		3.1	OK
44.004	213	48	120.329	-0.353	0.000	0.09		9.7	OK
44.005	214	48	120.289	-0.356	0.000	0.08		10.2	OK
44.006	215	48	120.236	-0.345	0.000	0.13		11.9	OK
44.007	138	48	120.199	-0.358	0.000	0.09		11.9	OK
39.007	84	48	119.814	-0.711	0.000	0.05		27.4	OK
46.000	BAR4	48	121.523	-0.186	0.000	0.07		2.7	OK
46.001	BAR5	48	121.311	-0.177	0.000	0.11		3.8	OK
47.000	BAR6	48	122.025	-0.126	0.000	0.06		1.1	OK
47.001	BAR7	48	121.684	-0.187	0.000	0.07		2.5	OK
47.002	BAR8	48	121.537	-0.190	0.000	0.06		3.4	OK
46.002	BAR9	48	121.150	-0.229	0.000	0.13		8.0	OK
46.003	BAR10	48	121.049	-0.252	0.000	0.06		10.1	OK
46.004	140	48	120.132	-0.363	0.000	0.08		10.1	OK
39.008	85	48	119.759	-0.709	0.000	0.05		37.5	OK
39.009	86	48	119.625	-0.709	0.000	0.05		39.1	OK
48.000	BAR3	48	120.817	-0.131	0.000	0.04		1.3	OK
48.001	143	48	119.771	-0.403	0.000	0.02		2.7	OK
49.000	216	48	120.401	-0.269	0.000	0.02		4.0	OK
49.001	144	48	119.797	-0.398	0.000	0.03		4.2	OK
39.010	87	48	119.378	-0.774	0.000	0.05		46.0	OK
39.011	88	48	119.244	-0.763	0.000	0.06		53.8	OK
39.012	103	48	119.094	-0.757	0.000	0.06		58.3	OK
50.000	BAR11	48	121.322	-0.123	0.000	0.08		1.3	OK
50.001	BAR12	48	120.949	-0.189	0.000	0.06		3.2	OK
51.000	BAR13	48	120.762	-0.206	0.000	0.02		0.5	OK
50.002	BAR14	48	120.737	-0.182	0.000	0.08		4.4	OK

M-EC		Page 162
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 1440 minute 30 year Summer I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	48	120.828	-0.123	0.000	0.07		1.2	OK
52.001	BAR16	48	120.533	-0.193	0.000	0.05		2.2	OK
50.003	BAR17	48	120.386	-0.232	0.000	0.12		7.1	OK
50.004	BAR18	48	120.311	-0.230	0.000	0.13		7.9	OK
50.005	BAR19	48	120.192	-0.257	0.000	0.05		8.9	OK
50.006	149	48	119.341	-0.384	0.000	0.05		8.9	OK
53.000	TWD1	48	120.412	-0.202	0.000	0.02		0.9	OK
54.000	TWD3	48	120.664	-0.218	0.000	0.01		0.6	OK
53.001	TWD2	48	120.047	-0.199	0.000	0.03		2.8	OK
39.013	104	48	118.846	-0.824	0.000	0.10		70.0	OK
39.014	104A	48	118.762	-0.873	0.000	0.06		70.4	OK
55.000	BAR20	48	121.374	-0.119	0.000	0.10		1.7	OK
55.001	BAR21	48	120.863	-0.190	0.000	0.06		3.1	OK
56.000	BAR22	48	120.420	-0.185	0.000	0.07		2.7	OK
56.001	BAR23	48	120.293	-0.176	0.000	0.11		3.5	OK
55.002	BAR24	48	120.172	-0.242	0.000	0.08		6.9	OK
55.003	BAR25	48	119.887	-0.307	0.000	0.08		8.2	OK
55.004	BAR26	48	119.784	-0.332	0.000	0.03		9.8	OK
39.015	105	48	118.589	-0.885	0.000	0.06		80.2	OK
39.016	106	48	118.396	-1.751	0.000	0.01		80.2	OK
39.017	107	48	115.737	-0.810	0.000	0.04		80.2	OK
1.027	26	46	112.063	-0.845	0.000	0.09		332.0	OK
1.028	27	46	109.259	-0.488	0.000	0.16		332.6	OK
1.029	28	46	106.314	-0.877	0.000	0.07		333.5	OK
1.030	29	47	97.349	-1.128	0.000	0.06		334.2	OK
1.031	30	47	92.779	-0.603	0.000	0.16		334.6	OK
1.032	31	47	91.596	-0.654	0.000	0.21		334.3	OK
1.033	32	46	91.142	-0.981	0.000	0.11		333.2	OK
1.034	33	24	90.906	0.633	0.000	0.56		138.1	SURCHARGED*
57.000	108	45	90.822	-1.064	0.000	0.06		103.9	OK
57.001	109	42	90.820	-1.066	0.000	0.05		102.3	OK
57.002	110	34	90.819	-1.067	0.000	0.04		94.4	OK
1.035	109	21	90.817	0.951	0.000	0.23		55.3	SURCHARGED*
1.036	34	54	86.650	0.000	0.000	0.68		56.9	SURCHARGED*

M-EC		Page 163
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 100 year Summer I+30% for STORM.SWS

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 Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

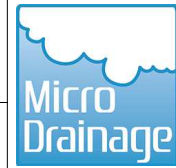
Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Flow / Overflow (l/s)	Flow (l/s)		
1.000	1	8	117.859	1.004	0.000	0.61	48.4	FLOOD RISK		
1.001	2	9	117.843	1.134	0.000	0.67	58.4	FLOOD RISK		
1.002	3	9	117.823	1.335	0.000	0.34	41.5	FLOOD RISK		
1.003	4	9	117.810	1.463	0.000	0.86	152.2	SURCHARGED		
2.000	5	3	119.312	0.637	0.000	0.52	59.9	SURCHARGED		
2.001	6	3	119.185	0.724	0.000	1.30	134.5	SURCHARGED		
2.002	6	5	118.915	0.702	0.000	1.05	142.1	SURCHARGED		
2.003	8	7	118.412	1.064	0.000	0.72	172.6	SURCHARGED		
3.000	9.1	2	119.405	0.980	4.802	1.10	57.7	FLOOD		
3.001	9	8	118.381	1.236	15.037	0.56	45.1	FLOOD		
3.002	10	9	118.371	1.388	1.148	0.61	65.6	FLOOD		
3.003	11	8	118.381	1.499	0.000	0.92	161.8	FLOOD RISK		
4.000	12	7	118.421	1.135	0.000	0.74	75.7	SURCHARGED		
3.004	13	9	118.323	1.563	0.000	0.56	175.1	SURCHARGED		
3.005	14	10	118.204	1.651	0.000	1.01	248.5	SURCHARGED		
3.006	15	9	118.165	1.700	0.000	1.05	236.3	SURCHARGED		
2.004	16	9	118.151	1.708	0.000	1.07	369.9	SURCHARGED		
2.005	17	9	118.098	1.745	0.000	1.02	428.3	SURCHARGED		
5.000	18	9	117.984	1.097	0.000	0.36	42.6	SURCHARGED		
2.006	19	9	117.954	1.775	0.000	1.09	454.2	SURCHARGED		
2.007	20	9	117.810	1.803	0.000	1.18	471.9	SURCHARGED		
1.004	21	9	117.691	1.843	0.000	1.68	582.5	SURCHARGED		

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1

Summary Wizard of 15 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	10	117.538	1.751	0.000	1.10		682.5	SURCHARGED
6.000	23	8	117.945	1.015	0.000	1.10		49.4	FLOOD RISK
6.001	24	8	117.909	1.216	0.000	1.15		42.4	SURCHARGED
6.002	25	8	117.894	1.269	0.000	0.97		72.4	SURCHARGED
6.003	26	9	117.824	1.509	0.000	1.56		95.8	SURCHARGED
6.004	27	9	117.738	1.482	0.000	1.11		140.3	SURCHARGED
6.005	28	10	117.648	1.665	0.000	0.54		126.1	SURCHARGED
1.006	29	10	117.465	1.835	0.000	1.02		852.9	SURCHARGED
7.000	30	3	118.290	0.030	0.000	1.10		42.8	SURCHARGED
7.001	31	5	118.033	-0.062	0.000	0.85		100.3	OK
1.007	8	10	117.280	1.939	0.000	1.23		923.4	SURCHARGED
8.000	60	10	117.153	0.297	0.000	0.75		29.0	SURCHARGED
8.001	61	10	117.134	0.450	0.000	0.31		33.4	SURCHARGED
8.002	35	10	117.126	0.698	0.000	0.20		50.0	SURCHARGED
1.008	10	10	117.116	2.037	0.000	2.80		929.8	SURCHARGED
9.000	62	2	120.256	0.956	0.000	1.19		98.9	SURCHARGED
10.000	40	3	120.194	1.226	26.266	3.31		203.3	FLOOD
9.001	63	4	119.772	0.793	0.000	1.74		291.4	SURCHARGED
9.002	64	6	118.569	0.051	0.000	0.88		403.9	SURCHARGED
9.003	148	10	117.354	2.088	0.000	1.54		394.8	SURCHARGED
1.009	11	10	117.077	2.017	0.000	1.73		1272.1	SURCHARGED
1.010	12	10	117.033	2.057	0.000	3.38		1261.5	SURCHARGED
1.011	13	10	117.022	2.068	0.000	2.78		1211.2	SURCHARGED
1.012	14	10	117.010	2.089	0.000	1.24		1177.1	SURCHARGED
1.013	15	10	117.001	2.131	0.000	2.48		1132.6	SURCHARGED
1.014	16	10	116.994	2.147	0.000	1.22		1122.6	SURCHARGED
11.000	TWC16	2	118.650	0.809	0.000	1.16		113.9	SURCHARGED
11.001	TWC17	10	116.985	1.325	0.000	0.90		112.1	SURCHARGED
1.015	17	10	116.985	2.115	0.000	0.79		1128.3	SURCHARGED
1.016	18	10	116.977	2.210	0.000	0.81		1083.4	SURCHARGED
12.000	TWC1	2	119.103	1.302	1.625	1.10		41.1	FLOOD
12.001	TWC2	2	119.076	1.440	0.000	1.26		48.1	FLOOD RISK
12.002	TWC3	2	118.877	1.507	0.000	2.49		85.8	SURCHARGED
12.003	TWC4	2	118.393	1.096	0.000	2.61		86.4	SURCHARGED
13.000	TWC5	2	119.601	1.311	11.140	1.71		64.8	FLOOD
13.001	TWC6	2	119.598	1.530	0.970	1.97		73.5	FLOOD
13.002	TWC7	2	119.189	1.291	0.000	1.36		96.7	SURCHARGED
12.004	TWC8	2	118.022	0.780	0.000	2.12		204.8	SURCHARGED
12.005	TWC9	4	117.678	0.510	0.000	2.59		228.7	SURCHARGED
12.006	TWC10	9	117.318	0.198	0.000	1.47		238.1	SURCHARGED
1.017	TWC11	10	116.969	2.302	0.000	0.86		1248.4	SURCHARGED
1.018	19	10	116.959	2.366	0.000	0.60		1238.7	SURCHARGED
14.000	TWC12	8	117.327	-0.082	0.000	0.71		26.3	OK
14.001	TWC13	10	117.128	-0.124	0.000	0.41		52.0	OK
14.002	TWC14	10	116.951	0.672	0.000	1.35		106.2	SURCHARGED
1.019	TWC15	10	116.951	2.623	0.000	0.97		1223.0	SURCHARGED
15.000	65	3	118.557	1.188	0.000	1.18		81.0	FLOOD RISK
16.000	136	3	118.513	0.299	0.000	0.57		34.3	SURCHARGED
16.001	137	3	118.461	0.554	0.000	0.58		32.6	SURCHARGED

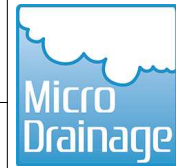
M-EC		Page 165
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	3	118.406	0.687	0.000	0.48	61.4	SURCHARGED	
15.001	66	4	118.299	1.113	0.000	1.38	162.5	SURCHARGED	
15.002	67	5	118.076	1.032	0.000	1.54	174.0	SURCHARGED	
17.000	9	5	118.128	0.544	0.000	0.10	8.5	SURCHARGED	
17.001	75	5	118.123	0.726	0.000	0.76	58.4	FLOOD RISK	
17.002	76	5	118.045	0.825	0.000	0.27	107.6	SURCHARGED	
15.003	68	5	117.892	0.947	0.000	1.09	263.0	SURCHARGED	
15.004	69	6	117.781	0.964	0.000	1.04	326.8	SURCHARGED	
15.005	70	7	117.725	0.997	0.000	1.11	311.4	SURCHARGED	
15.006	71	7	117.677	1.003	0.000	1.16	360.1	SURCHARGED	
18.000	147	7	117.721	0.750	0.000	0.51	19.6	SURCHARGED	
18.001	112	7	117.696	0.849	0.000	0.85	44.8	FLOOD RISK	
18.002	113	7	117.680	0.877	0.000	0.36	44.8	SURCHARGED	
19.000	115	7	117.720	0.226	0.000	0.29	14.0	SURCHARGED	
19.001	116	7	117.702	0.472	0.000	0.54	41.5	SURCHARGED	
18.003	77	7	117.671	0.921	0.000	0.56	70.6	SURCHARGED	
20.000	134	7	117.718	0.286	0.000	0.55	46.9	SURCHARGED	
18.004	135	7	117.656	0.956	0.000	0.77	128.9	SURCHARGED	
18.005	78	7	117.634	0.989	0.000	0.83	143.9	SURCHARGED	
15.007	72	7	117.609	1.011	0.000	1.68	480.3	SURCHARGED	
15.008	73	9	117.393	0.939	0.000	2.30	491.5	SURCHARGED	
15.009	74	9	117.259	0.848	0.000	2.99	484.8	SURCHARGED	
15.010	98	10	117.146	0.761	0.000	1.72	463.0	SURCHARGED	
15.011	99	10	117.024	0.741	0.000	1.45	411.0	SURCHARGED	
15.012	101	10	116.974	0.875	0.000	1.38	380.8	SURCHARGED	
21.000	142	4	117.641	0.352	0.000	1.06	49.0	SURCHARGED	
21.001	143	10	117.148	0.281	0.000	1.15	68.3	SURCHARGED	
22.000	118	4	117.921	0.615	0.000	0.22	7.1	SURCHARGED	
22.001	119	4	117.922	0.702	0.000	0.68	21.6	SURCHARGED	
22.002	120	4	117.897	0.736	0.000	0.87	54.4	SURCHARGED	
23.000	129	8	117.600	0.723	0.000	0.44	35.5	SURCHARGED	
23.001	130	8	117.517	0.775	0.000	0.41	42.1	SURCHARGED	
22.003	121	9	117.397	0.903	0.000	1.93	125.5	SURCHARGED	
24.000	131	2	118.255	1.176	0.000	1.49	62.1	SURCHARGED	
24.001	132	6	117.647	0.864	0.000	2.86	77.6	SURCHARGED	
24.002	133	10	117.300	0.560	0.000	0.70	89.2	SURCHARGED	
22.004	122	11	117.132	0.707	0.000	1.25	228.0	SURCHARGED	
22.005	123	12	116.962	0.634	0.000	1.70	258.1	SURCHARGED	
25.000	139	2	118.224	1.338	0.000	1.68	45.9	SURCHARGED	
25.001	140	2	117.987	1.213	0.000	1.55	95.4	SURCHARGED	
22.006	124	12	116.924	0.663	0.000	2.45	367.8	SURCHARGED	
22.007	125	12	116.929	0.722	0.000	1.35	368.0	SURCHARGED	
22.008	126	12	116.931	0.772	0.000	0.70	381.6	SURCHARGED	
22.009	127	12	116.934	0.871	0.000	1.54	377.5	SURCHARGED	
21.002	149	12	116.936	0.921	0.000	0.55	437.4	SURCHARGED	
1.020	20	10	116.942	3.388	0.000	7.09	470.2	SURCHARGED	
1.021	108	10	116.191	2.646	0.000	1.84	460.8	SURCHARGED	
1.022	21	9	115.951	2.542	0.000	1.76	448.6	SURCHARGED	
1.023	22	8	115.622	2.401	0.000	1.83	446.7	SURCHARGED	

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1

Summary Wizard of 15 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	2	119.430	-0.508	0.000	0.14		99.4	OK
26.001	90	2	119.112	-0.495	0.000	0.16		118.8	OK
27.000	200	2	119.642	-0.174	0.000	0.37		57.3	OK
27.001	109	2	119.003	-0.276	0.000	0.45		64.7	OK
26.002	91	2	118.804	-0.444	0.000	0.33		183.9	OK
28.000	TWD27	2	119.541	-0.076	0.000	0.90		116.5	OK
26.003	91A	2	118.739	-0.423	0.000	0.42		322.0	OK
26.004	92	2	118.687	-0.377	0.000	0.57		366.7	OK
26.005	93	2	118.604	-0.399	0.000	0.47		359.3	OK
29.000	TWD29	2	119.777	0.212	0.000	1.46		52.6	SURCHARGED
29.001	TWD30	2	119.548	0.090	0.000	1.35		87.0	SURCHARGED
29.002	TWD31	2	119.232	-0.116	0.000	0.67		116.6	OK
26.006	94	2	118.523	-0.343	0.000	0.61		469.8	OK
26.007	95	2	118.445	-0.310	0.000	0.62		480.8	OK
30.000	201	2	120.081	0.640	0.000	0.89		74.7	SURCHARGED
30.001	202	2	119.887	0.697	0.000	1.32		98.5	SURCHARGED
30.002	203	2	119.745	0.644	0.000	2.21		165.9	SURCHARGED
30.003	204	2	119.158	0.175	0.000	0.94		195.9	SURCHARGED
30.004	117	2	118.876	0.205	0.000	2.00		207.9	SURCHARGED
26.008	95A	2	118.392	-0.219	0.000	0.87		698.5	OK
26.009	96	2	118.140	-0.293	0.000	0.71		669.7	OK
26.010	97	2	117.674	-0.364	0.000	0.59		655.2	OK
31.000	121	1	117.620	0.000	0.000	1.36		491.4	OK
32.000	TWD4	2	120.690	0.429	0.000	0.56		27.6	SURCHARGED
32.001	TWD5	2	120.634	0.585	0.000	0.94		56.0	SURCHARGED
33.000	TWD16	2	120.574	0.863	0.000	1.44		94.0	SURCHARGED
32.002	TWD6	2	120.335	0.747	0.000	1.35		145.1	SURCHARGED
34.000	TWD17	2	120.181	0.474	0.000	0.73		38.1	SURCHARGED
35.000	TWD18	2	120.138	0.500	0.000	0.63		26.1	SURCHARGED
32.003	TWD7	2	120.066	0.626	0.000	1.26		208.4	SURCHARGED
32.004	TWD8	2	119.331	0.348	0.000	1.18		242.3	SURCHARGED
32.005	TWD9	2	119.142	0.291	0.000	1.51		255.8	SURCHARGED
32.006	TWD10	2	118.929	0.128	0.000	1.52		257.4	SURCHARGED
36.000	TWD19	2	120.739	1.018	0.000	1.42		97.5	FLOOD RISK
32.007	TWD11	2	118.057	0.336	0.000	2.39		360.5	SURCHARGED
37.000	TWD20	2	119.843	0.357	0.000	1.04		39.3	SURCHARGED
37.001	TWD21	2	119.618	0.347	0.000	1.07		72.3	SURCHARGED
37.002	TWD22	2	119.364	0.298	0.000	1.46		98.4	SURCHARGED
37.003	TWD23	2	118.874	0.014	0.000	1.16		123.0	SURCHARGED
37.004	TWD24	2	118.638	-0.148	0.000	0.66		138.6	OK
37.005	TWD25	2	118.184	-0.114	0.000	0.69		156.7	OK
32.008	TWD12	2	117.926	0.226	0.000	1.50		525.9	SURCHARGED
38.000	TWD26	2	119.346	-0.104	0.000	0.56		55.6	OK
32.009	TWD13	2	117.730	0.115	0.000	1.30		568.7	SURCHARGED
32.010	TWD14	3	117.610	0.063	0.000	1.40		574.9	SURCHARGED
32.011	TWD15	3	117.509	0.014	0.000	1.87		585.6	SURCHARGED
26.011	98	3	117.220	-0.368	0.000	0.66		1437.9	OK
26.012	99	4	116.988	-0.032	0.000	0.85		1406.2	OK
26.013	100	4	116.832	0.103	0.000	1.80		1406.1	SURCHARGED

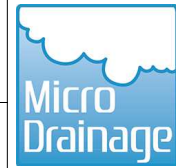
M-EC		Page 167
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	8	115.460	2.328	0.000	2.59	670.8	SURCHARGED
1.025	24	7	114.143	1.217	0.000	2.60	665.0	SURCHARGED
1.026	25	6	113.258	0.469	0.000	1.04	665.7	SURCHARGED
39.000	79	2	121.725	-0.448	0.000	0.05	24.0	OK
39.001	80	2	121.369	-0.390	0.000	0.15	71.5	OK
39.002	81	2	120.832	-0.495	0.000	0.16	89.1	OK
40.000	130	4	121.092	-0.109	0.000	0.53	17.8	OK
41.000	BAR1	2	122.128	0.323	0.000	1.21	35.0	SURCHARGED
41.001	131	2	121.034	-0.140	0.000	0.70	66.2	OK
39.003	81A	2	120.716	-0.418	0.000	0.30	184.2	OK
42.000	133	4	120.729	-0.217	0.000	0.17	9.8	OK
39.004	82	2	120.504	-0.401	0.000	0.43	227.9	OK
39.005	83	2	120.451	-0.384	0.000	0.35	223.4	OK
43.000	BAR2	2	122.404	0.775	0.000	1.35	42.0	SURCHARGED
43.001	136	2	120.617	-0.075	0.000	0.97	71.5	OK
39.006	83A	2	120.391	-0.279	0.000	0.48	291.4	OK
44.000	206	2	121.195	0.338	0.000	0.43	45.1	SURCHARGED
44.001	207	2	121.179	0.360	0.000	0.46	54.2	SURCHARGED
44.002	208	2	121.160	0.384	0.000	0.62	85.1	SURCHARGED
44.003	209	2	121.120	0.416	0.000	0.94	86.8	SURCHARGED
45.000	210	2	121.356	0.271	0.000	0.61	27.6	SURCHARGED
45.001	211	2	121.273	0.331	0.000	0.70	46.3	SURCHARGED
45.002	212	2	121.189	0.433	0.000	0.56	59.5	SURCHARGED
44.004	213	2	121.100	0.418	0.000	1.79	185.9	SURCHARGED
44.005	214	2	120.982	0.336	0.000	1.45	194.7	SURCHARGED
44.006	215	2	120.838	0.257	0.000	2.36	222.7	SURCHARGED
44.007	138	2	120.668	0.111	0.000	1.75	223.8	SURCHARGED
39.007	84	2	120.348	-0.177	0.000	0.91	546.8	OK
46.000	BAR4	2	122.910	1.201	0.972	1.47	55.3	FLOOD
46.001	BAR5	2	122.588	1.100	0.000	1.98	70.8	FLOOD RISK
47.000	BAR6	2	123.180	1.029	0.000	1.34	22.8	FLOOD RISK
47.001	BAR7	2	122.791	0.920	0.000	1.25	45.6	FLOOD RISK
47.002	BAR8	2	122.569	0.842	0.000	1.10	64.3	SURCHARGED
46.002	BAR9	2	122.156	0.777	0.000	2.43	150.0	SURCHARGED
46.003	BAR10	2	121.703	0.402	0.000	1.16	190.0	SURCHARGED
46.004	140	2	120.563	0.068	0.000	1.58	190.6	SURCHARGED
39.008	85	2	120.302	-0.166	0.000	0.95	731.9	OK
39.009	86	3	120.213	-0.121	0.000	0.91	733.1	OK
48.000	BAR3	2	120.934	-0.014	0.000	1.00	32.9	OK
48.001	143	3	120.074	-0.100	0.000	0.65	73.6	OK
49.000	216	2	120.539	-0.131	0.000	0.60	104.1	OK
49.001	144	3	120.088	-0.107	0.000	0.82	110.4	OK
39.010	87	3	120.061	-0.091	0.000	0.88	846.4	OK
39.011	88	3	119.988	-0.019	0.000	0.96	923.0	OK
39.012	103	3	119.862	0.011	0.000	1.00	964.0	SURCHARGED
50.000	BAR11	2	122.646	1.201	0.835	1.54	26.7	FLOOD
50.001	BAR12	2	122.285	1.147	0.000	1.12	57.1	FLOOD RISK
51.000	BAR13	2	122.015	1.047	0.000	0.41	12.9	FLOOD RISK
50.002	BAR14	2	122.004	1.085	0.000	1.50	80.7	FLOOD RISK

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage Network 2016.1

Summary Wizard of 15 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	2	121.948	0.997	0.000	1.53		25.6	FLOOD RISK
52.001	BAR16	2	121.440	0.714	0.000	1.01		44.2	SURCHARGED
50.003	BAR17	2	121.325	0.707	0.000	2.16		132.9	SURCHARGED
50.004	BAR18	2	120.961	0.420	0.000	2.33		146.9	SURCHARGED
50.005	BAR19	2	120.420	-0.029	0.000	0.94		164.5	OK
50.006	149	4	119.788	0.063	0.000	0.97		164.5	SURCHARGED
53.000	TWD1	2	120.516	-0.098	0.000	0.58		22.4	OK
54.000	TWD3	2	120.720	-0.162	0.000	0.17		14.7	OK
53.001	TWD2	2	120.180	-0.066	0.000	0.82		73.7	OK
39.013	104	4	119.686	0.016	0.000	1.74		1164.8	SURCHARGED
39.014	104A	4	119.598	-0.037	0.000	0.99		1119.5	OK
55.000	BAR20	2	122.694	1.201	1.076	1.75		30.6	FLOOD
55.001	BAR21	2	121.606	0.553	0.000	1.04		56.4	SURCHARGED
56.000	BAR22	2	121.562	0.957	0.000	1.68		61.2	FLOOD RISK
56.001	BAR23	2	121.172	0.703	0.000	2.30		75.4	SURCHARGED
55.002	BAR24	2	120.863	0.449	0.000	1.64		133.5	SURCHARGED
55.003	BAR25	2	120.268	0.074	0.000	1.44		154.0	SURCHARGED
55.004	BAR26	2	119.954	-0.162	0.000	0.60		188.7	OK
39.015	105	4	119.225	-0.249	0.000	0.90		1227.4	OK
39.016	106	4	119.041	-1.106	0.000	0.15		1130.9	OK
39.017	107	4	116.325	-0.222	0.000	0.59		1096.5	FLOOD RISK*
1.027	26	4	112.537	-0.371	0.000	0.45		1705.6	OK
1.028	27	4	109.673	-0.074	0.000	0.82		1692.0	FLOOD RISK*
1.029	28	4	106.736	-0.455	0.000	0.35		1630.0	OK
1.030	29	4	97.798	-0.679	0.000	0.27		1587.4	OK
1.031	30	6	93.262	-0.120	0.000	0.74		1537.9	FLOOD RISK*
1.032	31	6	92.215	-0.035	0.000	0.93		1452.2	FLOOD RISK*
1.033	32	11	91.666	-0.457	0.000	0.44		1391.3	OK
1.034	33	32	90.457	0.184	0.000	1.06		258.7	SURCHARGED*
57.000	108	2	91.886	0.000	0.000	1.05		1708.6	FLOOD RISK*
57.001	109	7	91.640	-0.246	0.000	0.65		1241.6	FLOOD RISK*
57.002	110	18	91.153	-0.733	0.000	0.33		809.7	OK
1.035	109	41	90.168	0.302	0.000	0.41		99.8	SURCHARGED*
1.036	34	53	86.650	0.000	0.000	0.67		56.1	SURCHARGED*



M-EC		Page 169
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 100 year Summer I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850  
Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	6	117.971	1.116	7.065	0.60	47.5	FLOOD
1.001	2	5	117.985	1.276	2.051	0.66	57.5	FLOOD
1.002	3	6	118.040	1.552	0.000	0.33	41.4	FLOOD RISK
1.003	4	6	118.071	1.724	0.000	0.77	136.7	FLOOD RISK
2.000	5	4	119.280	0.605	0.000	0.50	57.6	SURCHARGED
2.001	6	4	119.157	0.696	0.000	1.21	125.3	SURCHARGED
2.002	6	3	119.023	0.810	0.000	0.99	133.6	SURCHARGED
2.003	8	4	118.706	1.358	0.000	0.69	163.8	SURCHARGED
3.000	9.1	4	119.404	0.979	3.614	1.09	57.1	FLOOD
3.001	9	6	118.394	1.249	28.109	0.56	45.0	FLOOD
3.002	10	6	118.385	1.402	14.953	0.61	65.2	FLOOD
3.003	11	3	118.528	1.646	0.000	0.85	149.4	FLOOD RISK
4.000	12	3	118.663	1.377	0.000	0.63	64.6	FLOOD RISK
3.004	13	3	118.544	1.784	0.000	0.55	173.3	SURCHARGED
3.005	14	5	118.430	1.877	0.000	0.91	224.2	SURCHARGED
3.006	15	6	118.398	1.933	0.000	0.93	209.9	SURCHARGED
2.004	16	6	118.390	1.947	0.000	1.00	347.0	SURCHARGED
2.005	17	6	118.351	1.998	0.000	0.95	397.3	SURCHARGED
5.000	18	6	118.236	1.349	0.000	0.32	38.2	SURCHARGED
2.006	19	6	118.214	2.035	0.000	1.02	422.6	SURCHARGED
2.007	20	6	118.077	2.070	0.000	1.08	430.3	SURCHARGED
1.004	21	6	117.946	2.098	0.000	1.45	504.9	SURCHARGED

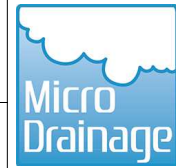
M-EC		Page 170
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	7	117.807	2.020	0.000	0.96		597.4	SURCHARGED
6.000	23	6	118.247	1.317	1.632	1.07		47.9	FLOOD
6.001	24	6	118.222	1.529	0.000	1.04		38.3	FLOOD RISK
6.002	25	6	118.209	1.584	0.000	0.91		68.0	FLOOD RISK
6.003	26	6	118.122	1.807	0.000	1.37		84.2	SURCHARGED
6.004	27	6	118.045	1.789	0.000	1.02		128.1	SURCHARGED
6.005	28	6	117.941	1.958	0.000	0.43		100.4	SURCHARGED
1.006	29	7	117.786	2.156	0.000	0.83		691.6	SURCHARGED
7.000	30	4	118.230	-0.030	0.000	1.00		38.9	OK
7.001	31	3	118.106	0.011	0.000	0.75		88.8	SURCHARGED
1.007	8	7	117.608	2.267	0.000	1.00		747.4	SURCHARGED
8.000	60	7	117.464	0.608	0.000	0.69		26.6	SURCHARGED
8.001	61	7	117.453	0.769	0.000	0.29		30.4	SURCHARGED
8.002	35	7	117.451	1.023	0.000	0.17		43.5	SURCHARGED
1.008	10	7	117.448	2.369	0.000	2.24		743.8	SURCHARGED
9.000	62	4	120.144	0.844	0.000	1.09		90.3	SURCHARGED
10.000	40	4	120.190	1.222	22.251	3.08		189.1	FLOOD
9.001	63	3	119.806	0.827	0.000	1.70		285.9	SURCHARGED
9.002	64	2	118.938	0.420	0.000	0.81		373.9	SURCHARGED
9.003	148	6	117.637	2.371	0.000	1.39		355.3	SURCHARGED
1.009	11	7	117.436	2.376	0.000	1.43		1053.1	SURCHARGED
1.010	12	7	117.417	2.441	0.000	2.85		1063.3	SURCHARGED
1.011	13	7	117.403	2.449	0.000	2.44		1063.4	SURCHARGED
1.012	14	7	117.387	2.466	0.000	1.12		1060.6	SURCHARGED
1.013	15	7	117.375	2.505	0.000	2.30		1049.0	SURCHARGED
1.014	16	7	117.364	2.517	0.000	1.14		1043.9	SURCHARGED
11.000	TWC16	4	118.498	0.657	0.000	1.06		103.4	SURCHARGED
11.001	TWC17	7	117.354	1.694	0.000	0.80		99.6	SURCHARGED
1.015	17	7	117.353	2.483	0.000	0.76		1088.7	SURCHARGED
1.016	18	7	117.343	2.576	0.000	0.80		1075.5	SURCHARGED
12.000	TWC1	3	119.101	1.300	0.288	0.88		32.7	FLOOD
12.001	TWC2	3	119.028	1.392	0.000	1.16		44.2	FLOOD RISK
12.002	TWC3	3	118.712	1.342	0.000	2.40		82.4	SURCHARGED
12.003	TWC4	3	118.277	0.980	0.000	2.52		83.4	SURCHARGED
13.000	TWC5	4	119.599	1.309	8.770	1.62		61.7	FLOOD
13.001	TWC6	3	119.597	1.529	0.212	1.97		73.6	FLOOD
13.002	TWC7	3	119.126	1.228	0.000	1.34		95.2	SURCHARGED
12.004	TWC8	4	117.932	0.690	0.000	2.07		199.4	SURCHARGED
12.005	TWC9	7	117.614	0.446	0.000	2.50		220.8	SURCHARGED
12.006	TWC10	7	117.405	0.285	0.000	1.42		229.1	SURCHARGED
1.017	TWC11	7	117.332	2.665	0.000	0.86		1251.2	SURCHARGED
1.018	19	7	117.321	2.728	0.000	0.60		1241.5	SURCHARGED
14.000	TWC12	9	117.317	-0.092	0.000	0.65		24.1	OK
14.001	TWC13	7	117.310	0.058	0.000	0.36		45.9	SURCHARGED
14.002	TWC14	7	117.310	1.031	0.000	1.19		93.7	SURCHARGED
1.019	TWC15	7	117.311	2.983	0.000	1.00		1252.0	SURCHARGED
15.000	65	4	118.458	1.089	0.000	1.07		73.6	FLOOD RISK
16.000	136	4	118.440	0.226	0.000	0.51		30.5	SURCHARGED
16.001	137	4	118.403	0.496	0.000	0.57		31.9	SURCHARGED

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP

Micro Drainage

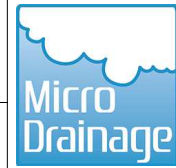
Network 2016.1

Summary Wizard of 30 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	4	118.376	0.657	0.000	0.41	53.1	SURCHARGED	
15.001	66	3	118.300	1.114	0.000	1.23	145.5	SURCHARGED	
15.002	67	3	118.174	1.130	0.000	1.41	159.4	SURCHARGED	
17.000	9	3	118.203	0.619	0.000	0.10	7.9	SURCHARGED	
17.001	75	3	118.199	0.802	0.000	0.72	55.2	FLOOD RISK	
17.002	76	3	118.160	0.940	0.000	0.23	90.8	SURCHARGED	
15.003	68	4	118.056	1.111	0.000	0.99	239.6	SURCHARGED	
15.004	69	4	117.962	1.145	0.000	0.95	298.6	SURCHARGED	
15.005	70	4	117.912	1.184	0.000	1.04	292.9	SURCHARGED	
15.006	71	4	117.869	1.195	0.000	1.11	345.7	SURCHARGED	
18.000	147	4	117.909	0.938	0.000	0.43	16.5	SURCHARGED	
18.001	112	4	117.894	1.047	0.000	0.65	34.3	FLOOD RISK	
18.002	113	4	117.881	1.078	0.000	0.28	34.8	SURCHARGED	
19.000	115	4	117.908	0.414	0.000	0.26	12.6	SURCHARGED	
19.001	116	4	117.896	0.666	0.000	0.48	37.2	SURCHARGED	
18.003	77	4	117.872	1.122	0.000	0.48	59.6	SURCHARGED	
20.000	134	4	117.896	0.464	0.000	0.49	41.6	SURCHARGED	
18.004	135	4	117.859	1.159	0.000	0.71	119.1	SURCHARGED	
18.005	78	4	117.839	1.194	0.000	0.75	130.1	SURCHARGED	
15.007	72	4	117.820	1.222	0.000	1.64	467.0	SURCHARGED	
15.008	73	5	117.621	1.167	0.000	2.26	481.3	SURCHARGED	
15.009	74	6	117.497	1.086	0.000	2.89	469.3	SURCHARGED	
15.010	98	6	117.403	1.018	0.000	1.67	449.3	SURCHARGED	
15.011	99	6	117.357	1.074	0.000	1.46	412.7	SURCHARGED	
15.012	101	6	117.328	1.229	0.000	1.43	393.6	SURCHARGED	
21.000	142	9	117.448	0.159	0.000	1.00	46.0	SURCHARGED	
21.001	143	8	117.312	0.445	0.000	1.08	64.4	SURCHARGED	
22.000	118	5	117.715	0.409	0.000	0.16	5.1	SURCHARGED	
22.001	119	5	117.711	0.491	0.000	0.58	18.2	SURCHARGED	
22.002	120	7	117.683	0.522	0.000	0.83	51.6	SURCHARGED	
23.000	129	9	117.461	0.584	0.000	0.41	33.4	SURCHARGED	
23.001	130	10	117.358	0.616	0.000	0.38	38.7	SURCHARGED	
22.003	121	10	117.342	0.848	0.000	1.84	119.4	SURCHARGED	
24.000	131	4	118.011	0.933	0.000	1.38	57.7	SURCHARGED	
24.001	132	9	117.482	0.700	0.000	2.72	73.9	SURCHARGED	
24.002	133	9	117.345	0.605	0.000	0.67	85.4	SURCHARGED	
22.004	122	8	117.336	0.912	0.000	1.20	217.6	SURCHARGED	
22.005	123	8	117.328	1.000	0.000	1.63	246.9	SURCHARGED	
25.000	139	4	117.910	1.024	0.000	1.53	41.6	SURCHARGED	
25.001	140	5	117.713	0.939	0.000	1.45	89.1	SURCHARGED	
22.006	124	8	117.319	1.057	0.000	2.31	346.3	SURCHARGED	
22.007	125	8	117.306	1.100	0.000	1.25	340.9	SURCHARGED	
22.008	126	8	117.300	1.141	0.000	0.64	351.3	SURCHARGED	
22.009	127	8	117.300	1.237	0.000	1.36	335.5	SURCHARGED	
21.002	149	8	117.300	1.285	0.000	0.48	378.4	SURCHARGED	
1.020	20	7	117.300	3.746	0.000	5.50	364.4	SURCHARGED	
1.021	108	6	116.446	2.901	0.000	1.46	365.1	SURCHARGED	
1.022	21	5	116.173	2.764	0.000	1.44	365.8	SURCHARGED	
1.023	22	5	115.799	2.578	0.000	1.50	366.5	SURCHARGED	

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network




Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP

Micro Drainage Network 2016.1

Summary Wizard of 30 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	3	119.421	-0.517	0.000	0.13		90.8	OK
26.001	90	3	119.101	-0.506	0.000	0.14		108.1	OK
27.000	200	3	119.635	-0.181	0.000	0.33		51.9	OK
27.001	109	3	118.987	-0.292	0.000	0.41		58.5	OK
26.002	91	3	118.781	-0.467	0.000	0.30		166.1	OK
28.000	TWD27	3	119.524	-0.093	0.000	0.82		105.7	OK
26.003	91A	3	118.712	-0.450	0.000	0.38		290.1	OK
26.004	92	3	118.659	-0.405	0.000	0.51		327.4	OK
26.005	93	3	118.572	-0.431	0.000	0.43		327.9	OK
29.000	TWD29	3	119.694	0.129	0.000	1.31		47.2	SURCHARGED
29.001	TWD30	3	119.503	0.045	0.000	1.21		77.8	SURCHARGED
29.002	TWD31	3	119.218	-0.130	0.000	0.60		104.6	OK
26.006	94	3	118.491	-0.375	0.000	0.56		428.7	OK
26.007	95	3	118.413	-0.342	0.000	0.57		435.6	OK
30.000	201	3	119.865	0.424	0.000	0.80		66.7	SURCHARGED
30.001	202	3	119.708	0.518	0.000	1.20		89.6	SURCHARGED
30.002	203	3	119.583	0.482	0.000	2.03		152.5	SURCHARGED
30.003	204	3	119.075	0.092	0.000	0.86		179.5	SURCHARGED
30.004	117	3	118.837	0.166	0.000	1.84		191.4	SURCHARGED
26.008	95A	3	118.358	-0.253	0.000	0.81		649.4	OK
26.009	96	3	118.111	-0.322	0.000	0.67		632.5	OK
26.010	97	3	117.658	-0.380	0.000	0.56		621.8	OK
31.000	121	4	117.620	0.000	0.000	1.24		449.4	OK
32.000	TWD4	3	120.524	0.263	0.000	0.54		26.6	SURCHARGED
32.001	TWD5	3	120.471	0.422	0.000	0.90		53.6	SURCHARGED
33.000	TWD16	3	120.413	0.702	0.000	1.32		86.1	SURCHARGED
32.002	TWD6	3	120.200	0.612	0.000	1.28		137.2	SURCHARGED
34.000	TWD17	3	120.056	0.349	0.000	0.71		36.7	SURCHARGED
35.000	TWD18	3	120.015	0.377	0.000	0.61		25.2	SURCHARGED
32.003	TWD7	3	119.954	0.514	0.000	1.19		197.0	SURCHARGED
32.004	TWD8	3	119.293	0.310	0.000	1.15		235.1	SURCHARGED
32.005	TWD9	4	119.117	0.266	0.000	1.47		248.5	SURCHARGED
32.006	TWD10	4	118.918	0.117	0.000	1.48		250.7	SURCHARGED
36.000	TWD19	3	120.469	0.748	0.000	1.32		90.6	SURCHARGED
32.007	TWD11	3	118.019	0.298	0.000	2.30		347.4	SURCHARGED
37.000	TWD20	3	119.653	0.167	0.000	0.93		35.4	SURCHARGED
37.001	TWD21	3	119.466	0.195	0.000	0.99		67.1	SURCHARGED
37.002	TWD22	3	119.253	0.187	0.000	1.35		91.3	SURCHARGED
37.003	TWD23	3	118.862	0.002	0.000	1.05		111.7	SURCHARGED
37.004	TWD24	3	118.625	-0.161	0.000	0.61		128.0	OK
37.005	TWD25	3	118.149	-0.149	0.000	0.66		149.2	OK
32.008	TWD12	4	117.899	0.199	0.000	1.45		507.5	SURCHARGED
38.000	TWD26	3	119.338	-0.112	0.000	0.50		50.4	OK
32.009	TWD13	4	117.719	0.104	0.000	1.27		552.9	SURCHARGED
32.010	TWD14	4	117.607	0.060	0.000	1.38		567.8	SURCHARGED
32.011	TWD15	4	117.508	0.013	0.000	1.86		583.2	SURCHARGED
26.011	98	4	117.217	-0.371	0.000	0.66		1434.5	OK
26.012	99	3	116.989	-0.031	0.000	0.85		1406.3	OK
26.013	100	3	116.832	0.103	0.000	1.80		1406.3	SURCHARGED

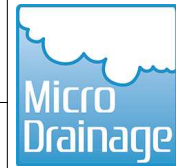
M-EC		Page 173
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	5	115.613	2.481	0.000	2.64	683.3	SURCHARGED
1.025	24	3	114.226	1.300	0.000	2.67	683.6	SURCHARGED
1.026	25	4	113.282	0.493	0.000	1.07	684.2	SURCHARGED
39.000	79	3	121.721	-0.452	0.000	0.05	21.7	OK
39.001	80	3	121.360	-0.399	0.000	0.13	61.8	OK
39.002	81	3	120.820	-0.507	0.000	0.14	77.0	OK
40.000	130	3	121.094	-0.107	0.000	0.54	18.3	OK
41.000	BAR1	3	121.989	0.184	0.000	1.13	32.7	SURCHARGED
41.001	131	3	121.017	-0.157	0.000	0.63	59.8	OK
39.003	81A	3	120.699	-0.435	0.000	0.27	166.3	OK
42.000	133	3	120.731	-0.215	0.000	0.18	10.1	OK
39.004	82	3	120.480	-0.425	0.000	0.39	208.1	OK
39.005	83	3	120.428	-0.407	0.000	0.32	200.5	OK
43.000	BAR2	3	122.195	0.566	0.000	1.26	39.2	SURCHARGED
43.001	136	3	120.596	-0.096	0.000	0.89	65.7	OK
39.006	83A	4	120.368	-0.302	0.000	0.45	270.6	OK
44.000	206	3	121.124	0.267	0.000	0.40	42.0	SURCHARGED
44.001	207	3	121.110	0.290	0.000	0.43	49.7	SURCHARGED
44.002	208	3	121.091	0.315	0.000	0.60	81.2	SURCHARGED
44.003	209	3	121.055	0.350	0.000	0.89	82.4	SURCHARGED
45.000	210	3	121.284	0.199	0.000	0.59	26.5	SURCHARGED
45.001	211	3	121.215	0.273	0.000	0.64	42.3	SURCHARGED
45.002	212	3	121.128	0.372	0.000	0.52	56.0	SURCHARGED
44.004	213	3	121.035	0.353	0.000	1.72	178.5	SURCHARGED
44.005	214	3	120.931	0.286	0.000	1.39	185.9	SURCHARGED
44.006	215	3	120.803	0.223	0.000	2.26	213.6	SURCHARGED
44.007	138	3	120.652	0.095	0.000	1.68	214.1	SURCHARGED
39.007	84	4	120.322	-0.203	0.000	0.86	514.1	OK
46.000	BAR4	3	122.849	1.140	0.000	1.38	51.8	FLOOD RISK
46.001	BAR5	3	122.415	0.927	0.000	1.97	70.5	FLOOD RISK
47.000	BAR6	3	122.958	0.807	0.000	1.23	20.9	SURCHARGED
47.001	BAR7	3	122.575	0.704	0.000	1.19	43.6	SURCHARGED
47.002	BAR8	3	122.369	0.642	0.000	1.04	61.0	SURCHARGED
46.002	BAR9	3	121.991	0.612	0.000	2.36	145.1	SURCHARGED
46.003	BAR10	3	121.567	0.266	0.000	1.12	182.4	SURCHARGED
46.004	140	3	120.551	0.056	0.000	1.51	181.9	SURCHARGED
39.008	85	4	120.276	-0.192	0.000	0.90	694.4	OK
39.009	86	4	120.193	-0.141	0.000	0.88	706.8	OK
48.000	BAR3	3	120.910	-0.038	0.000	0.91	30.1	OK
48.001	143	4	120.065	-0.109	0.000	0.57	64.1	OK
49.000	216	3	120.528	-0.142	0.000	0.55	94.3	OK
49.001	144	4	120.078	-0.117	0.000	0.75	100.5	OK
39.010	87	4	120.052	-0.100	0.000	0.86	818.5	OK
39.011	88	4	119.983	-0.024	0.000	0.95	910.8	OK
39.012	103	4	119.859	0.008	0.000	1.01	965.1	SURCHARGED
50.000	BAR11	3	122.645	1.200	0.019	1.39	24.1	FLOOD
50.001	BAR12	3	122.110	0.972	0.000	1.07	54.6	FLOOD RISK
51.000	BAR13	3	121.868	0.900	0.000	0.34	10.8	SURCHARGED
50.002	BAR14	3	121.856	0.937	0.000	1.44	77.2	FLOOD RISK

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network




Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP

Micro Drainage Network 2016.1

Summary Wizard of 30 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	3	121.810	0.859	0.000	1.44		24.1	SURCHARGED
52.001	BAR16	3	121.337	0.611	0.000	0.95		41.9	SURCHARGED
50.003	BAR17	3	121.233	0.615	0.000	2.06		126.5	SURCHARGED
50.004	BAR18	3	120.904	0.363	0.000	2.22		139.9	SURCHARGED
50.005	BAR19	3	120.374	-0.075	0.000	0.90		158.2	OK
50.006	149	3	119.795	0.070	0.000	0.94		158.1	SURCHARGED
53.000	TWD1	3	120.508	-0.106	0.000	0.52		20.3	OK
54.000	TWD3	3	120.716	-0.166	0.000	0.16		13.3	OK
53.001	TWD2	3	120.166	-0.080	0.000	0.74		66.0	OK
39.013	104	3	119.697	0.027	0.000	1.73		1155.2	SURCHARGED
39.014	104A	3	119.622	-0.013	0.000	1.00		1124.5	OK
55.000	BAR20	3	122.693	1.200	0.187	1.71		29.9	FLOOD
55.001	BAR21	3	121.450	0.397	0.000	1.00		54.0	SURCHARGED
56.000	BAR22	3	121.391	0.786	0.000	1.56		56.9	SURCHARGED
56.001	BAR23	3	121.060	0.591	0.000	2.18		71.4	SURCHARGED
55.002	BAR24	3	120.796	0.382	0.000	1.57		127.9	SURCHARGED
55.003	BAR25	3	120.251	0.057	0.000	1.38		147.5	SURCHARGED
55.004	BAR26	3	119.947	-0.169	0.000	0.57		178.5	OK
39.015	105	3	119.235	-0.239	0.000	0.91		1238.1	OK
39.016	106	3	119.045	-1.102	0.000	0.16		1167.7	OK
39.017	107	3	116.340	-0.207	0.000	0.60		1127.9	FLOOD RISK*
1.027	26	3	112.544	-0.364	0.000	0.46		1752.0	OK
1.028	27	3	109.682	-0.065	0.000	0.84		1745.4	FLOOD RISK*
1.029	28	3	106.746	-0.445	0.000	0.37		1696.8	OK
1.030	29	3	97.814	-0.663	0.000	0.28		1664.9	OK
1.031	30	3	93.283	-0.099	0.000	0.79		1630.4	FLOOD RISK*
1.032	31	2	92.250	0.000	0.000	1.00		1571.0	FLOOD RISK*
1.033	32	8	91.708	-0.415	0.000	0.48		1520.2	OK
1.034	33	30	90.513	0.240	0.000	1.01		248.0	SURCHARGED*
57.000	108	4	91.886	0.000	0.000	1.08		1749.2	FLOOD RISK*
57.001	109	5	91.680	-0.206	0.000	0.70		1351.3	FLOOD RISK*
57.002	110	13	91.251	-0.635	0.000	0.39		962.0	OK
1.035	109	33	90.244	0.378	0.000	0.39		94.2	SURCHARGED*
1.036	34	52	86.650	0.000	0.000	0.68		56.6	SURCHARGED*

M-EC		Page 175
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 100 year Summer I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details


Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850  
Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	1	4	117.974	1.119	9.956	0.36	29.0	FLOOD	
1.001	2	6	117.984	1.275	1.771	0.40	35.3	FLOOD	
1.002	3	5	118.046	1.558	0.000	0.20	24.2	FLOOD RISK	
1.003	4	5	118.074	1.727	0.000	0.46	82.0	FLOOD RISK	
2.000	5	6	119.090	0.415	0.000	0.40	46.2	SURCHARGED	
2.001	6	6	119.011	0.550	0.000	0.95	97.9	SURCHARGED	
2.002	6	6	118.886	0.673	0.000	0.78	105.7	SURCHARGED	
2.003	8	5	118.674	1.326	0.000	0.48	113.3	SURCHARGED	
3.000	9.1	5	119.400	0.975	0.069	0.92	48.1	FLOOD	
3.001	9	4	118.399	1.254	32.754	0.49	39.4	FLOOD	
3.002	10	5	118.394	1.411	23.976	0.44	47.1	FLOOD	
3.003	11	6	118.470	1.588	0.000	0.53	93.9	FLOOD RISK	
4.000	12	4	118.584	1.298	0.000	0.40	41.2	SURCHARGED	
3.004	13	6	118.480	1.720	0.000	0.38	118.8	SURCHARGED	
3.005	14	6	118.423	1.870	0.000	0.71	176.0	SURCHARGED	
3.006	15	5	118.399	1.934	0.000	0.78	174.3	SURCHARGED	
2.004	16	5	118.390	1.947	0.000	0.75	261.9	SURCHARGED	
2.005	17	5	118.361	2.008	0.000	0.72	300.7	SURCHARGED	
5.000	18	5	118.244	1.357	0.000	0.21	24.9	SURCHARGED	
2.006	19	5	118.223	2.044	0.000	0.78	324.8	SURCHARGED	
2.007	20	5	118.088	2.081	0.000	0.84	336.4	SURCHARGED	
1.004	21	5	117.958	2.110	0.000	1.16	403.0	SURCHARGED	

M-EC		Page 176
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 100 year Summer I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	4	117.936	2.149	0.000	0.75		466.0	SURCHARGED
6.000	23	4	118.248	1.318	2.997	0.77		34.4	FLOOD
6.001	24	5	118.225	1.532	0.000	0.87		32.1	FLOOD RISK
6.002	25	5	118.213	1.588	0.000	0.66		49.4	FLOOD RISK
6.003	26	5	118.159	1.844	0.000	0.91		55.9	SURCHARGED
6.004	27	5	118.077	1.821	0.000	0.67		84.0	SURCHARGED
6.005	28	4	117.970	1.987	0.000	0.33		77.1	SURCHARGED
1.006	29	4	117.923	2.293	0.000	0.70		585.1	SURCHARGED
7.000	30	5	118.180	-0.080	0.000	0.71		27.9	OK
7.001	31	6	117.991	-0.104	0.000	0.55		64.6	OK
1.007	8	4	117.742	2.401	0.000	0.86		643.7	SURCHARGED
8.000	60	4	117.594	0.738	0.000	0.49		18.7	SURCHARGED
8.001	61	4	117.588	0.904	0.000	0.16		17.4	SURCHARGED
8.002	35	4	117.584	1.156	0.000	0.10		26.0	SURCHARGED
1.008	10	4	117.580	2.501	0.000	1.96		651.2	SURCHARGED
9.000	62	5	119.832	0.532	0.000	0.76		63.2	SURCHARGED
10.000	40	5	120.169	1.201	1.080	2.97		182.5	FLOOD
9.001	63	5	119.680	0.701	0.000	1.59		266.2	SURCHARGED
9.002	64	3	118.920	0.402	0.000	0.68		310.7	SURCHARGED
9.003	148	4	117.724	2.458	0.000	1.21		309.5	SURCHARGED
1.009	11	4	117.571	2.511	0.000	1.30		953.5	SURCHARGED
1.010	12	4	117.553	2.577	0.000	2.58		962.3	SURCHARGED
1.011	13	4	117.542	2.588	0.000	2.20		959.6	SURCHARGED
1.012	14	4	117.527	2.606	0.000	1.01		957.5	SURCHARGED
1.013	15	4	117.516	2.646	0.000	2.09		954.6	SURCHARGED
1.014	16	4	117.506	2.659	0.000	1.03		950.4	SURCHARGED
11.000	TWC16	5	118.071	0.230	0.000	0.81		79.7	SURCHARGED
11.001	TWC17	4	117.506	1.846	0.000	0.60		74.9	SURCHARGED
1.015	17	4	117.495	2.625	0.000	0.69		994.4	SURCHARGED
1.016	18	4	117.485	2.718	0.000	0.73		980.1	SURCHARGED
12.000	TWC1	5	118.525	0.724	0.000	0.66		24.7	SURCHARGED
12.001	TWC2	5	118.449	0.813	0.000	0.92		35.1	SURCHARGED
12.002	TWC3	5	118.229	0.859	0.000	1.99		68.4	SURCHARGED
12.003	TWC4	6	117.925	0.628	0.000	2.05		67.6	SURCHARGED
13.000	TWC5	5	119.590	1.300	0.084	1.08		41.0	FLOOD
13.001	TWC6	5	119.355	1.287	0.000	1.90		71.1	FLOOD RISK
13.002	TWC7	5	118.728	0.830	0.000	1.25		89.0	SURCHARGED
12.004	TWC8	7	117.702	0.460	0.000	1.81		174.4	SURCHARGED
12.005	TWC9	6	117.627	0.459	0.000	2.15		190.4	SURCHARGED
12.006	TWC10	4	117.551	0.431	0.000	1.22		196.8	SURCHARGED
1.017	TWC11	4	117.474	2.807	0.000	0.79		1145.3	SURCHARGED
1.018	19	4	117.463	2.870	0.000	0.55		1137.8	SURCHARGED
14.000	TWC12	4	117.467	0.058	0.000	0.46		17.1	SURCHARGED
14.001	TWC13	4	117.463	0.211	0.000	0.26		32.8	SURCHARGED
14.002	TWC14	4	117.457	1.178	0.000	0.83		65.2	SURCHARGED
1.019	TWC15	4	117.453	3.125	0.000	0.93		1164.4	SURCHARGED
15.000	65	6	118.131	0.762	0.000	0.88		60.4	SURCHARGED
16.000	136	6	118.109	-0.105	0.000	0.38		22.4	OK
16.001	137	6	118.085	0.178	0.000	0.42		23.5	SURCHARGED



M-EC		Page 177
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	6	118.067	0.348	0.000	0.34		43.7	SURCHARGED
15.001	66	6	118.040	0.854	0.000	1.00		117.8	SURCHARGED
15.002	67	7	117.939	0.895	0.000	1.12		126.9	SURCHARGED
17.000	9	6	117.969	0.385	0.000	0.07		5.9	SURCHARGED
17.001	75	6	117.966	0.569	0.000	0.52		40.2	SURCHARGED
17.002	76	6	117.941	0.721	0.000	0.15		62.3	SURCHARGED
15.003	68	7	117.842	0.897	0.000	0.82		198.2	SURCHARGED
15.004	69	7	117.778	0.961	0.000	0.76		240.0	SURCHARGED
15.005	70	6	117.741	1.013	0.000	0.82		229.9	SURCHARGED
15.006	71	6	117.710	1.036	0.000	0.88		273.2	SURCHARGED
18.000	147	6	117.758	0.787	0.000	0.29		11.4	SURCHARGED
18.001	112	6	117.744	0.897	0.000	0.50		26.2	FLOOD RISK
18.002	113	6	117.731	0.928	0.000	0.24		29.8	SURCHARGED
19.000	115	6	117.756	0.262	0.000	0.19		9.1	SURCHARGED
19.001	116	6	117.746	0.516	0.000	0.35		27.0	SURCHARGED
18.003	77	6	117.723	0.973	0.000	0.43		53.8	SURCHARGED
20.000	134	6	117.742	0.310	0.000	0.36		30.6	SURCHARGED
18.004	135	6	117.708	1.008	0.000	0.54		91.0	SURCHARGED
18.005	78	6	117.693	1.048	0.000	0.58		100.3	SURCHARGED
15.007	72	6	117.676	1.078	0.000	1.36		387.4	SURCHARGED
15.008	73	6	117.576	1.122	0.000	1.86		397.3	SURCHARGED
15.009	74	5	117.531	1.120	0.000	2.37		384.5	SURCHARGED
15.010	98	4	117.515	1.130	0.000	1.42		382.1	SURCHARGED
15.011	99	4	117.494	1.211	0.000	1.26		357.9	SURCHARGED
15.012	101	4	117.466	1.367	0.000	1.26		347.2	SURCHARGED
21.000	142	5	117.630	0.341	0.000	0.76		34.9	SURCHARGED
21.001	143	3	117.617	0.750	0.000	0.83		49.5	SURCHARGED
22.000	118	7	117.687	0.381	0.000	0.06		1.9	SURCHARGED
22.001	119	7	117.686	0.466	0.000	0.44		13.8	SURCHARGED
22.002	120	6	117.684	0.523	0.000	0.73		45.8	SURCHARGED
23.000	129	5	117.676	0.799	0.000	0.29		23.9	SURCHARGED
23.001	130	4	117.673	0.931	0.000	0.27		27.6	SURCHARGED
22.003	121	4	117.670	1.176	0.000	1.37		89.0	SURCHARGED
24.000	131	8	117.694	0.616	0.000	1.03		42.9	SURCHARGED
24.001	132	5	117.681	0.898	0.000	2.00		54.4	SURCHARGED
24.002	133	4	117.672	0.931	0.000	0.49		62.5	SURCHARGED
22.004	122	3	117.664	1.240	0.000	0.87		159.2	SURCHARGED
22.005	123	3	117.656	1.328	0.000	1.20		181.8	SURCHARGED
25.000	139	7	117.676	0.789	0.000	1.09		29.7	SURCHARGED
25.001	140	6	117.667	0.893	0.000	1.08		66.2	SURCHARGED
22.006	124	3	117.648	1.386	0.000	1.71		256.4	SURCHARGED
22.007	125	3	117.611	1.404	0.000	0.93		253.7	SURCHARGED
22.008	126	3	117.604	1.445	0.000	0.49		267.6	SURCHARGED
22.009	127	3	117.599	1.536	0.000	1.05		275.5	SURCHARGED
21.002	149	3	117.595	1.580	0.000	0.37		296.1	SURCHARGED
1.020	20	4	117.442	3.888	0.000	7.30		483.9	SURCHARGED
1.021	108	4	116.529	2.984	0.000	1.91		478.4	SURCHARGED
1.022	21	4	116.240	2.831	0.000	1.84		468.7	SURCHARGED
1.023	22	4	115.843	2.622	0.000	1.91		467.7	SURCHARGED

M-EC		Page 178
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	5	119.400	-0.538	0.000	0.09		64.7	OK
26.001	90	5	119.077	-0.530	0.000	0.10		76.0	OK
27.000	200	5	119.616	-0.200	0.000	0.24		37.4	OK
27.001	109	5	118.949	-0.330	0.000	0.29		41.6	OK
26.002	91	5	118.735	-0.513	0.000	0.21		117.8	OK
28.000	TWD27	5	119.484	-0.133	0.000	0.59		75.9	OK
26.003	91A	5	118.647	-0.515	0.000	0.27		208.0	OK
26.004	92	5	118.590	-0.474	0.000	0.37		238.4	OK
26.005	93	5	118.502	-0.501	0.000	0.31		239.6	OK
29.000	TWD29	5	119.518	-0.047	0.000	0.95		34.2	OK
29.001	TWD30	5	119.386	-0.072	0.000	0.89		57.0	OK
29.002	TWD31	5	119.191	-0.157	0.000	0.44		76.4	OK
26.006	94	5	118.408	-0.458	0.000	0.42		318.7	OK
26.007	95	5	118.319	-0.436	0.000	0.42		324.0	OK
30.000	201	5	119.479	0.038	0.000	0.59		49.6	SURCHARGED
30.001	202	5	119.366	0.176	0.000	0.90		67.5	SURCHARGED
30.002	203	5	119.264	0.163	0.000	1.54		115.7	SURCHARGED
30.003	204	5	118.864	-0.119	0.000	0.65		136.2	OK
30.004	117	5	118.729	0.058	0.000	1.39		144.7	SURCHARGED
26.008	95A	5	118.258	-0.353	0.000	0.60		482.3	OK
26.009	96	5	118.034	-0.399	0.000	0.52		487.3	OK
26.010	97	5	117.594	-0.444	0.000	0.43		473.6	OK
31.000	121	5	117.411	-0.209	0.000	0.88		318.0	OK
32.000	TWD4	5	120.137	-0.124	0.000	0.41		20.2	OK
32.001	TWD5	5	119.975	-0.074	0.000	0.75		44.7	OK
33.000	TWD16	5	119.866	0.155	0.000	1.06		69.3	SURCHARGED
32.002	TWD6	5	119.731	0.143	0.000	1.10		117.6	SURCHARGED
34.000	TWD17	5	119.623	-0.084	0.000	0.53		27.7	OK
35.000	TWD18	5	119.601	-0.037	0.000	0.46		19.2	OK
32.003	TWD7	5	119.559	0.119	0.000	0.98		162.5	SURCHARGED
32.004	TWD8	5	119.116	0.133	0.000	0.95		194.1	SURCHARGED
32.005	TWD9	5	118.995	0.144	0.000	1.22		205.6	SURCHARGED
32.006	TWD10	5	118.857	0.056	0.000	1.23		207.9	SURCHARGED
36.000	TWD19	5	119.802	0.081	0.000	1.04		71.5	SURCHARGED
32.007	TWD11	5	117.824	0.103	0.000	1.87		281.5	SURCHARGED
37.000	TWD20	5	119.408	-0.078	0.000	0.73		27.6	OK
37.001	TWD21	5	119.223	-0.048	0.000	0.79		53.5	OK
37.002	TWD22	5	119.097	0.031	0.000	1.08		72.7	SURCHARGED
37.003	TWD23	5	118.763	-0.097	0.000	0.88		93.0	OK
37.004	TWD24	5	118.605	-0.181	0.000	0.52		109.2	OK
37.005	TWD25	5	118.124	-0.174	0.000	0.55		124.6	OK
32.008	TWD12	5	117.778	0.078	0.000	1.22		426.4	SURCHARGED
38.000	TWD26	5	119.319	-0.131	0.000	0.36		36.3	OK
32.009	TWD13	5	117.648	0.033	0.000	1.08		469.1	SURCHARGED
32.010	TWD14	5	117.567	0.020	0.000	1.17		482.9	SURCHARGED
32.011	TWD15	5	117.495	0.000	0.000	1.59		500.2	OK
26.011	98	5	117.103	-0.485	0.000	0.56		1231.3	OK
26.012	99	5	116.880	-0.140	0.000	0.74		1217.6	OK
26.013	100	5	116.780	0.051	0.000	1.57		1223.9	SURCHARGED

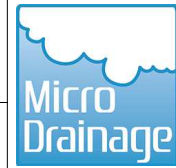
M-EC		Page 179
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 60 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	3	115.643	2.511	0.000	2.66	689.4	SURCHARGED
1.025	24	4	114.222	1.296	0.000	2.70	689.5	SURCHARGED
1.026	25	5	113.272	0.483	0.000	1.08	689.7	SURCHARGED
39.000	79	5	121.711	-0.462	0.000	0.03	15.6	OK
39.001	80	5	121.342	-0.417	0.000	0.09	44.5	OK
39.002	81	5	120.795	-0.532	0.000	0.10	54.7	OK
40.000	130	5	121.084	-0.117	0.000	0.47	15.7	OK
41.000	BAR1	5	121.764	-0.041	0.000	0.86	24.8	OK
41.001	131	5	120.984	-0.190	0.000	0.47	44.9	OK
39.003	81A	5	120.667	-0.467	0.000	0.20	119.9	OK
42.000	133	5	120.724	-0.222	0.000	0.15	8.6	OK
39.004	82	5	120.435	-0.470	0.000	0.29	152.3	OK
39.005	83	5	120.364	-0.471	0.000	0.24	153.1	OK
43.000	BAR2	5	121.663	0.034	0.000	1.02	31.7	SURCHARGED
43.001	136	5	120.553	-0.139	0.000	0.69	51.3	OK
39.006	83A	5	120.290	-0.380	0.000	0.35	211.8	OK
44.000	206	5	120.902	0.045	0.000	0.30	32.2	SURCHARGED
44.001	207	5	120.891	0.071	0.000	0.33	38.1	SURCHARGED
44.002	208	5	120.876	0.100	0.000	0.48	66.0	SURCHARGED
44.003	209	5	120.846	0.142	0.000	0.71	65.5	SURCHARGED
45.000	210	5	121.050	-0.035	0.000	0.43	19.5	OK
45.001	211	5	121.017	0.075	0.000	0.50	32.8	SURCHARGED
45.002	212	5	120.925	0.169	0.000	0.41	43.8	SURCHARGED
44.004	213	5	120.831	0.149	0.000	1.39	143.9	SURCHARGED
44.005	214	5	120.779	0.133	0.000	1.11	149.4	SURCHARGED
44.006	215	5	120.697	0.116	0.000	1.84	173.7	SURCHARGED
44.007	138	5	120.599	0.042	0.000	1.34	171.6	SURCHARGED
39.007	84	5	120.233	-0.292	0.000	0.69	412.0	OK
46.000	BAR4	5	122.196	0.487	0.000	1.11	41.8	SURCHARGED
46.001	BAR5	5	121.909	0.421	0.000	1.63	58.5	SURCHARGED
47.000	BAR6	5	122.326	0.175	0.000	0.99	16.9	SURCHARGED
47.001	BAR7	5	122.042	0.171	0.000	1.02	37.3	SURCHARGED
47.002	BAR8	5	121.887	0.160	0.000	0.89	52.4	SURCHARGED
46.002	BAR9	5	121.603	0.224	0.000	1.99	122.4	SURCHARGED
46.003	BAR10	5	121.237	-0.064	0.000	0.95	155.7	OK
46.004	140	8	120.495	0.000	0.000	1.29	155.5	OK
39.008	85	5	120.181	-0.287	0.000	0.74	567.8	OK
39.009	86	5	120.076	-0.258	0.000	0.74	592.0	OK
48.000	BAR3	5	120.888	-0.060	0.000	0.66	21.6	OK
48.001	143	5	119.953	-0.221	0.000	0.41	46.3	OK
49.000	216	5	120.502	-0.168	0.000	0.39	67.9	OK
49.001	144	5	119.983	-0.212	0.000	0.53	71.2	OK
39.010	87	5	119.941	-0.211	0.000	0.72	691.4	OK
39.011	88	5	119.891	-0.116	0.000	0.82	788.1	OK
39.012	103	5	119.797	-0.054	0.000	0.87	836.9	OK
50.000	BAR11	5	121.978	0.533	0.000	1.13	19.5	SURCHARGED
50.001	BAR12	5	121.600	0.462	0.000	0.89	45.5	SURCHARGED
51.000	BAR13	5	121.427	0.459	0.000	0.26	8.3	SURCHARGED
50.002	BAR14	5	121.418	0.499	0.000	1.18	63.6	SURCHARGED

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1

Summary Wizard of 60 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	5	121.380	0.429	0.000	1.11		18.6	SURCHARGED
52.001	BAR16	5	121.086	0.360	0.000	0.76		33.5	SURCHARGED
50.003	BAR17	5	120.982	0.364	0.000	1.68		103.0	SURCHARGED
50.004	BAR18	5	120.756	0.215	0.000	1.81		114.2	SURCHARGED
50.005	BAR19	5	120.345	-0.104	0.000	0.74		129.1	OK
50.006	149	6	119.773	0.048	0.000	0.76		128.1	SURCHARGED
53.000	TWD1	5	120.488	-0.126	0.000	0.39		15.0	OK
54.000	TWD3	5	120.707	-0.175	0.000	0.11		9.6	OK
53.001	TWD2	5	120.140	-0.106	0.000	0.52		47.0	OK
39.013	104	5	119.670	0.000	0.000	1.49		996.1	OK
39.014	104A	5	119.357	-0.278	0.000	0.87		978.6	OK
55.000	BAR20	5	122.064	0.571	0.000	1.47		25.7	SURCHARGED
55.001	BAR21	5	121.081	0.028	0.000	0.87		47.2	SURCHARGED
56.000	BAR22	5	120.947	0.342	0.000	1.19		43.6	SURCHARGED
56.001	BAR23	5	120.748	0.279	0.000	1.70		55.7	SURCHARGED
55.002	BAR24	5	120.585	0.171	0.000	1.30		105.6	SURCHARGED
55.003	BAR25	5	120.206	0.012	0.000	1.16		123.8	SURCHARGED
55.004	BAR26	5	119.924	-0.192	0.000	0.47		147.9	OK
39.015	105	5	119.168	-0.306	0.000	0.79		1072.1	OK
39.016	106	5	118.994	-1.153	0.000	0.14		1023.3	OK
39.017	107	5	116.291	-0.256	0.000	0.54		1012.3	FLOOD RISK*
1.027	26	5	112.519	-0.389	0.000	0.44		1646.3	OK
1.028	27	5	109.662	-0.085	0.000	0.79		1648.0	FLOOD RISK*
1.029	28	5	106.726	-0.465	0.000	0.35		1619.1	OK
1.030	29	5	97.796	-0.681	0.000	0.27		1599.8	OK
1.031	30	4	93.267	-0.115	0.000	0.76		1575.5	FLOOD RISK*
1.032	31	5	92.245	-0.005	0.000	0.98		1542.2	FLOOD RISK*
1.033	32	9	91.705	-0.418	0.000	0.48		1511.3	OK
1.034	33	19	91.036	0.763	0.000	1.22		298.3	SURCHARGED*
57.000	108	5	91.849	-0.037	0.000	0.93		1502.1	FLOOD RISK*
57.001	109	8	91.612	-0.274	0.000	0.65		1242.2	FLOOD RISK*
57.002	110	14	91.250	-0.636	0.000	0.39		958.0	OK
1.035	109	25	90.654	0.788	0.000	0.29		69.8	SURCHARGED*
1.036	34	48	86.650	0.000	0.000	0.72		59.5	SURCHARGED*

M-EC		Page 181
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 100 year Summer I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	7	117.965	1.110	1.543	0.22	17.8	FLOOD
1.001	2	7	117.973	1.264	0.000	0.25	21.7	FLOOD RISK
1.002	3	7	117.970	1.482	0.000	0.16	19.5	FLOOD RISK
1.003	4	7	117.965	1.618	0.000	0.38	67.6	SURCHARGED
2.000	5	8	118.586	-0.089	0.000	0.26	29.7	OK
2.001	6	8	118.568	0.107	0.000	0.58	60.5	SURCHARGED
2.002	6	8	118.454	0.241	0.000	0.49	66.7	SURCHARGED
2.003	8	8	118.353	1.005	0.000	0.31	74.6	SURCHARGED
3.000	9.1	7	118.889	0.464	0.000	0.67	35.3	SURCHARGED
3.001	9	7	118.387	1.242	21.448	0.34	27.3	FLOOD
3.002	10	7	118.381	1.398	10.851	0.32	34.3	FLOOD
3.003	11	7	118.400	1.518	0.000	0.39	68.5	FLOOD RISK
4.000	12	8	118.409	1.123	0.000	0.28	28.3	SURCHARGED
3.004	13	7	118.394	1.634	0.000	0.28	89.6	SURCHARGED
3.005	14	7	118.371	1.818	0.000	0.52	127.6	SURCHARGED
3.006	15	7	118.343	1.878	0.000	0.58	130.4	SURCHARGED
2.004	16	7	118.340	1.897	0.000	0.58	200.1	SURCHARGED
2.005	17	7	118.331	1.978	0.000	0.55	229.7	SURCHARGED
5.000	18	7	118.196	1.309	0.000	0.13	15.6	SURCHARGED
2.006	19	7	118.192	2.013	0.000	0.61	254.3	SURCHARGED
2.007	20	7	118.052	2.045	0.000	0.67	268.9	SURCHARGED
1.004	21	7	117.918	2.070	0.000	0.94	325.5	SURCHARGED

M-EC		Page 182
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.005	22	5	117.910	2.123	0.000	0.60	374.2	SURCHARGED
6.000	23	7	118.211	1.281	0.000	0.43	19.5	FLOOD RISK
6.001	24	7	118.176	1.483	0.000	0.51	18.6	FLOOD RISK
6.002	25	7	118.161	1.536	0.000	0.39	29.0	FLOOD RISK
6.003	26	7	118.111	1.796	0.000	0.67	41.3	SURCHARGED
6.004	27	7	118.041	1.785	0.000	0.48	60.5	SURCHARGED
6.005	28	7	117.936	1.953	0.000	0.24	56.6	SURCHARGED
1.006	29	5	117.896	2.266	0.000	0.56	466.7	SURCHARGED
7.000	30	11	118.144	-0.116	0.000	0.47	18.2	OK
7.001	31	11	117.962	-0.133	0.000	0.35	41.2	OK
1.007	8	5	117.717	2.376	0.000	0.68	505.4	SURCHARGED
8.000	60	5	117.571	0.715	0.000	0.30	11.3	SURCHARGED
8.001	61	5	117.564	0.880	0.000	0.12	12.7	SURCHARGED
8.002	35	5	117.561	1.133	0.000	0.06	14.2	SURCHARGED
1.008	10	5	117.556	2.477	0.000	1.55	515.3	SURCHARGED
9.000	62	11	119.174	-0.126	0.000	0.54	44.7	OK
10.000	40	11	119.373	0.405	0.000	2.08	127.7	SURCHARGED
9.001	63	11	119.080	0.101	0.000	1.10	184.9	SURCHARGED
9.002	64	11	118.337	-0.181	0.000	0.51	236.3	OK
9.003	148	5	117.702	2.436	0.000	0.92	235.8	SURCHARGED
1.009	11	5	117.547	2.487	0.000	1.03	753.7	SURCHARGED
1.010	12	5	117.527	2.551	0.000	2.04	762.3	SURCHARGED
1.011	13	5	117.514	2.560	0.000	1.76	767.3	SURCHARGED
1.012	14	5	117.497	2.576	0.000	0.81	768.3	SURCHARGED
1.013	15	5	117.486	2.616	0.000	1.67	763.2	SURCHARGED
1.014	16	5	117.476	2.629	0.000	0.82	757.2	SURCHARGED
11.000	TWC16	12	117.738	-0.103	0.000	0.57	55.8	OK
11.001	TWC17	5	117.476	1.816	0.000	0.42	52.5	SURCHARGED
1.015	17	5	117.465	2.595	0.000	0.55	781.7	SURCHARGED
1.016	18	5	117.455	2.688	0.000	0.57	763.6	SURCHARGED
12.000	TWC1	12	117.831	0.030	0.000	0.47	17.3	SURCHARGED
12.001	TWC2	12	117.784	0.148	0.000	0.65	25.0	SURCHARGED
12.002	TWC3	12	117.679	0.309	0.000	1.42	49.0	SURCHARGED
12.003	TWC4	9	117.663	0.366	0.000	1.47	48.5	SURCHARGED
13.000	TWC5	11	118.501	0.211	0.000	0.79	30.1	SURCHARGED
13.001	TWC6	11	118.356	0.288	0.000	1.45	54.1	SURCHARGED
13.002	TWC7	11	117.986	0.088	0.000	0.94	66.8	SURCHARGED
12.004	TWC8	8	117.650	0.408	0.000	1.32	127.6	SURCHARGED
12.005	TWC9	8	117.585	0.417	0.000	1.59	140.3	SURCHARGED
12.006	TWC10	5	117.531	0.411	0.000	0.90	144.9	SURCHARGED
1.017	TWC11	5	117.444	2.777	0.000	0.61	887.3	SURCHARGED
1.018	19	5	117.433	2.840	0.000	0.42	876.7	SURCHARGED
14.000	TWC12	5	117.436	0.027	0.000	0.30	11.2	SURCHARGED
14.001	TWC13	5	117.432	0.180	0.000	0.17	21.1	SURCHARGED
14.002	TWC14	5	117.426	1.147	0.000	0.51	40.4	SURCHARGED
1.019	TWC15	5	117.422	3.094	0.000	0.72	911.2	SURCHARGED
15.000	65	8	117.794	0.425	0.000	0.62	42.4	SURCHARGED
16.000	136	12	118.064	-0.150	0.000	0.24	14.4	OK
16.001	137	10	117.776	-0.131	0.000	0.27	15.3	OK

M-EC		Page 183
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 100 year Summer I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	8	117.770	0.051	0.000	0.22		27.9	SURCHARGED
15.001	66	8	117.761	0.575	0.000	0.72		85.0	SURCHARGED
15.002	67	8	117.677	0.633	0.000	0.80		90.9	SURCHARGED
17.000	9	8	117.601	0.017	0.000	0.05		3.9	SURCHARGED
17.001	75	8	117.600	0.203	0.000	0.32		24.4	SURCHARGED
17.002	76	8	117.596	0.376	0.000	0.11		45.7	SURCHARGED
15.003	68	8	117.594	0.649	0.000	0.60		143.7	SURCHARGED
15.004	69	8	117.560	0.743	0.000	0.56		176.3	SURCHARGED
15.005	70	8	117.550	0.822	0.000	0.62		173.8	SURCHARGED
15.006	71	8	117.541	0.867	0.000	0.66		205.1	SURCHARGED
18.000	147	8	117.555	0.584	0.000	0.21		8.1	SURCHARGED
18.001	112	8	117.551	0.704	0.000	0.31		16.2	SURCHARGED
18.002	113	8	117.548	0.745	0.000	0.16		19.4	SURCHARGED
19.000	115	8	117.555	0.061	0.000	0.12		5.9	SURCHARGED
19.001	116	8	117.552	0.322	0.000	0.21		16.3	SURCHARGED
18.003	77	8	117.545	0.795	0.000	0.29		36.0	SURCHARGED
20.000	134	8	117.551	0.119	0.000	0.23		19.7	SURCHARGED
18.004	135	8	117.541	0.841	0.000	0.40		67.2	SURCHARGED
18.005	78	8	117.536	0.891	0.000	0.42		74.0	SURCHARGED
15.007	72	8	117.530	0.932	0.000	1.00		286.1	SURCHARGED
15.008	73	7	117.507	1.053	0.000	1.37		292.0	SURCHARGED
15.009	74	7	117.492	1.081	0.000	1.76		285.7	SURCHARGED
15.010	98	5	117.480	1.095	0.000	1.03		276.4	SURCHARGED
15.011	99	5	117.460	1.177	0.000	0.98		277.1	SURCHARGED
15.012	101	5	117.434	1.335	0.000	0.97		266.7	SURCHARGED
21.000	142	6	117.612	0.323	0.000	0.49		22.8	SURCHARGED
21.001	143	4	117.599	0.732	0.000	0.57		33.8	SURCHARGED
22.000	118	6	117.694	0.388	0.000	0.05		1.6	SURCHARGED
22.001	119	6	117.693	0.473	0.000	0.33		10.4	SURCHARGED
22.002	120	5	117.690	0.529	0.000	0.50		31.1	SURCHARGED
23.000	129	4	117.679	0.802	0.000	0.20		16.3	SURCHARGED
23.001	130	3	117.675	0.933	0.000	0.17		16.8	SURCHARGED
22.003	121	3	117.670	1.176	0.000	0.92		60.0	SURCHARGED
24.000	131	7	117.707	0.629	0.000	0.69		28.9	SURCHARGED
24.001	132	4	117.686	0.903	0.000	1.35		36.6	SURCHARGED
24.002	133	3	117.673	0.932	0.000	0.32		40.5	SURCHARGED
22.004	122	4	117.662	1.238	0.000	0.57		104.0	SURCHARGED
22.005	123	4	117.620	1.292	0.000	0.78		118.7	SURCHARGED
25.000	139	8	117.641	0.755	0.000	0.74		20.1	SURCHARGED
25.001	140	8	117.631	0.857	0.000	0.71		43.9	SURCHARGED
22.006	124	4	117.610	1.348	0.000	1.10		164.9	SURCHARGED
22.007	125	4	117.594	1.388	0.000	0.60		162.4	SURCHARGED
22.008	126	4	117.588	1.428	0.000	0.32		172.5	SURCHARGED
22.009	127	4	117.583	1.520	0.000	0.69		169.0	SURCHARGED
21.002	149	4	117.578	1.563	0.000	0.25		195.4	SURCHARGED
1.020	20	5	117.410	3.856	0.000	7.33		486.1	SURCHARGED
1.021	108	5	116.469	2.924	0.000	1.90		475.9	SURCHARGED
1.022	21	6	116.169	2.760	0.000	1.86		474.6	SURCHARGED
1.023	22	6	115.762	2.541	0.000	1.92		470.3	SURCHARGED

M-EC		Page 184
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	11	119.368	-0.570	0.000	0.06		42.1	OK
26.001	90	11	119.044	-0.563	0.000	0.07		49.8	OK
27.000	200	11	119.594	-0.222	0.000	0.15		24.1	OK
27.001	109	11	118.907	-0.372	0.000	0.19		26.9	OK
26.002	91	11	118.682	-0.566	0.000	0.14		76.3	OK
28.000	TWD27	11	119.445	-0.172	0.000	0.38		49.1	OK
26.003	91A	11	118.574	-0.588	0.000	0.18		134.3	OK
26.004	92	11	118.511	-0.553	0.000	0.24		152.5	OK
26.005	93	11	118.430	-0.573	0.000	0.20		151.4	OK
29.000	TWD29	11	119.469	-0.096	0.000	0.62		22.4	OK
29.001	TWD30	11	119.322	-0.136	0.000	0.57		36.9	OK
29.002	TWD31	11	119.157	-0.191	0.000	0.29		49.6	OK
26.006	94	11	118.331	-0.535	0.000	0.26		202.1	OK
26.007	95	11	118.224	-0.531	0.000	0.27		206.9	OK
30.000	201	11	119.271	-0.170	0.000	0.39		32.6	OK
30.001	202	11	119.106	-0.084	0.000	0.58		43.3	OK
30.002	203	11	119.073	-0.028	0.000	1.00		75.2	OK
30.003	204	11	118.778	-0.205	0.000	0.42		88.8	OK
30.004	117	11	118.576	-0.095	0.000	0.91		94.5	OK
26.008	95A	11	118.150	-0.461	0.000	0.40		317.0	OK
26.009	96	11	117.940	-0.493	0.000	0.33		314.1	OK
26.010	97	11	117.513	-0.525	0.000	0.29		317.7	OK
31.000	121	11	117.246	-0.374	0.000	0.58		208.4	OK
32.000	TWD4	11	120.115	-0.146	0.000	0.27		13.0	OK
32.001	TWD5	11	119.934	-0.115	0.000	0.48		28.6	OK
33.000	TWD16	11	119.603	-0.108	0.000	0.73		47.4	OK
32.002	TWD6	11	119.461	-0.127	0.000	0.76		81.2	OK
34.000	TWD17	11	119.573	-0.134	0.000	0.34		17.8	OK
35.000	TWD18	11	119.498	-0.140	0.000	0.30		12.6	OK
32.003	TWD7	11	119.304	-0.136	0.000	0.71		118.3	OK
32.004	TWD8	11	118.819	-0.164	0.000	0.71		146.2	OK
32.005	TWD9	11	118.745	-0.106	0.000	0.92		155.4	OK
32.006	TWD10	11	118.697	-0.104	0.000	0.92		156.4	OK
36.000	TWD19	11	119.634	-0.087	0.000	0.69		47.2	OK
32.007	TWD11	9	117.730	0.009	0.000	1.39		209.0	SURCHARGED
37.000	TWD20	11	119.371	-0.115	0.000	0.47		18.0	OK
37.001	TWD21	11	119.128	-0.143	0.000	0.53		35.9	OK
37.002	TWD22	11	118.963	-0.103	0.000	0.75		50.7	OK
37.003	TWD23	11	118.701	-0.159	0.000	0.62		66.0	OK
37.004	TWD24	11	118.569	-0.217	0.000	0.37		77.0	OK
37.005	TWD25	11	118.085	-0.213	0.000	0.38		87.2	OK
32.008	TWD12	8	117.700	0.000	0.000	0.86		300.2	OK
38.000	TWD26	11	119.299	-0.151	0.000	0.23		23.4	OK
32.009	TWD13	11	117.615	0.000	0.000	0.75		326.8	OK
32.010	TWD14	8	117.547	0.000	0.000	0.82		336.4	OK
32.011	TWD15	9	117.495	0.000	0.000	1.10		346.1	OK
26.011	98	11	116.988	-0.600	0.000	0.38		839.5	OK
26.012	99	8	116.767	-0.253	0.000	0.48		794.5	OK
26.013	100	8	116.716	-0.013	0.000	1.00		782.0	OK



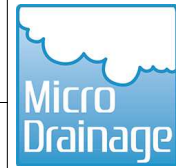
M-EC		Page 185
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 120 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	7	115.555	2.423	0.000	2.63	680.9	680.9	SURCHARGED
1.025	24	8	114.142	1.216	0.000	2.66	680.8	680.8	SURCHARGED
1.026	25	8	113.198	0.409	0.000	1.07	681.2	681.2	SURCHARGED
39.000	79	11	121.701	-0.472	0.000	0.02	10.1	10.1	OK
39.001	80	11	121.316	-0.443	0.000	0.06	28.0	28.0	OK
39.002	81	11	120.761	-0.566	0.000	0.06	34.6	34.6	OK
40.000	130	9	121.065	-0.136	0.000	0.33	11.0	11.0	OK
41.000	BAR1	11	121.735	-0.070	0.000	0.56	16.0	16.0	OK
41.001	131	11	120.940	-0.234	0.000	0.30	28.6	28.6	OK
39.003	81A	11	120.621	-0.513	0.000	0.13	79.1	79.1	OK
42.000	133	9	120.711	-0.235	0.000	0.11	6.1	6.1	OK
39.004	82	11	120.375	-0.530	0.000	0.19	99.8	99.8	OK
39.005	83	11	120.293	-0.542	0.000	0.16	98.9	98.9	OK
43.000	BAR2	11	121.569	-0.060	0.000	0.67	20.8	20.8	OK
43.001	136	11	120.495	-0.197	0.000	0.46	33.6	33.6	OK
39.006	83A	11	120.186	-0.484	0.000	0.23	141.3	141.3	OK
44.000	206	9	120.857	0.000	0.000	0.19	19.7	19.7	OK
44.001	207	11	120.819	0.000	0.000	0.19	22.4	22.4	OK
44.002	208	9	120.778	0.002	0.000	0.29	39.0	39.0	SURCHARGED
44.003	209	9	120.704	0.000	0.000	0.44	40.4	40.4	OK
45.000	210	11	120.941	-0.144	0.000	0.28	12.6	12.6	OK
45.001	211	9	120.799	-0.143	0.000	0.34	22.5	22.5	OK
45.002	212	8	120.771	0.015	0.000	0.26	27.8	27.8	SURCHARGED
44.004	213	11	120.682	0.000	0.000	0.84	87.3	87.3	OK
44.005	214	11	120.645	0.000	0.000	0.70	93.3	93.3	OK
44.006	215	10	120.581	0.000	0.000	1.15	108.7	108.7	OK
44.007	138	8	120.443	-0.114	0.000	0.86	109.8	109.8	OK
39.007	84	11	120.104	-0.421	0.000	0.44	265.0	265.0	OK
46.000	BAR4	11	121.719	0.010	0.000	0.76	28.4	28.4	SURCHARGED
46.001	BAR5	11	121.586	0.098	0.000	1.11	39.6	39.6	SURCHARGED
47.000	BAR6	11	122.094	-0.057	0.000	0.70	11.9	11.9	OK
47.001	BAR7	11	121.791	-0.080	0.000	0.74	26.9	26.9	OK
47.002	BAR8	11	121.634	-0.093	0.000	0.64	37.7	37.7	OK
46.002	BAR9	11	121.442	0.063	0.000	1.39	85.4	85.4	SURCHARGED
46.003	BAR10	11	121.182	-0.119	0.000	0.66	108.2	108.2	OK
46.004	140	11	120.382	-0.113	0.000	0.90	108.0	108.0	OK
39.008	85	11	120.052	-0.416	0.000	0.48	367.9	367.9	OK
39.009	86	11	119.915	-0.419	0.000	0.48	389.1	389.1	OK
48.000	BAR3	11	120.866	-0.082	0.000	0.42	14.0	14.0	OK
48.001	143	11	119.879	-0.295	0.000	0.26	29.3	29.3	OK
49.000	216	11	120.472	-0.198	0.000	0.25	43.9	43.9	OK
49.001	144	11	119.928	-0.267	0.000	0.35	46.3	46.3	OK
39.010	87	11	119.693	-0.459	0.000	0.48	454.6	454.6	OK
39.011	88	11	119.631	-0.376	0.000	0.55	526.9	526.9	OK
39.012	103	11	119.544	-0.307	0.000	0.59	569.3	569.3	OK
50.000	BAR11	11	121.400	-0.045	0.000	0.83	14.4	14.4	OK
50.001	BAR12	11	121.060	-0.078	0.000	0.68	34.6	34.6	OK
51.000	BAR13	11	120.968	0.000	0.000	0.17	5.5	5.5	OK
50.002	BAR14	11	120.960	0.041	0.000	0.87	46.9	46.9	SURCHARGED

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1

Summary Wizard of 120 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	11	120.935	-0.016	0.000	0.79		13.2	OK
52.001	BAR16	11	120.793	0.067	0.000	0.53		23.5	SURCHARGED
50.003	BAR17	11	120.722	0.104	0.000	1.22		75.0	SURCHARGED
50.004	BAR18	11	120.603	0.062	0.000	1.32		83.0	SURCHARGED
50.005	BAR19	11	120.308	-0.141	0.000	0.54		93.7	OK
50.006	149	11	119.518	-0.207	0.000	0.55		93.3	OK
53.000	TWD1	11	120.466	-0.148	0.000	0.25		9.7	OK
54.000	TWD3	11	120.697	-0.185	0.000	0.07		6.2	OK
53.001	TWD2	11	120.112	-0.134	0.000	0.34		30.6	OK
39.013	104	11	119.447	-0.223	0.000	1.03		692.7	OK
39.014	104A	9	119.208	-0.427	0.000	0.62		700.4	OK
55.000	BAR20	11	121.534	0.041	0.000	1.03		17.9	SURCHARGED
55.001	BAR21	11	120.958	-0.095	0.000	0.62		33.9	OK
56.000	BAR22	11	120.575	-0.030	0.000	0.82		29.9	OK
56.001	BAR23	11	120.483	0.014	0.000	1.18		38.6	SURCHARGED
55.002	BAR24	11	120.342	-0.072	0.000	0.92		74.7	OK
55.003	BAR25	11	120.083	-0.111	0.000	0.82		87.9	OK
55.004	BAR26	11	119.892	-0.224	0.000	0.34		105.1	OK
39.015	105	9	119.034	-0.440	0.000	0.58		789.7	OK
39.016	106	8	118.875	-1.272	0.000	0.10		774.6	OK
39.017	107	8	116.191	-0.356	0.000	0.41		761.2	OK
1.027	26	7	112.458	-0.450	0.000	0.37		1414.4	OK
1.028	27	7	109.607	-0.140	0.000	0.68		1413.1	FLOOD RISK*
1.029	28	7	106.671	-0.520	0.000	0.30		1396.4	OK
1.030	29	7	97.744	-0.733	0.000	0.23		1393.7	OK
1.031	30	7	93.207	-0.175	0.000	0.67		1379.2	FLOOD RISK*
1.032	31	7	92.175	-0.075	0.000	0.87		1358.9	FLOOD RISK*
1.033	32	13	91.652	-0.471	0.000	0.43		1344.4	OK
1.034	33	12	91.360	1.087	0.000	1.27		310.9	SURCHARGED*
57.000	108	12	91.632	-0.254	0.000	0.65		1050.4	FLOOD RISK*
57.001	109	14	91.445	-0.441	0.000	0.49		947.5	OK
57.002	110	17	91.155	-0.731	0.000	0.33		805.7	OK
1.035	109	12	91.111	1.245	0.000	0.26		62.7	SURCHARGED*
1.036	34	44	86.650	0.000	0.000	0.75		62.7	SURCHARGED*

M-EC		Page 187
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 100 year Summer I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0 Inlet Coefficient 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 4  
Number of Online Controls 1 Number of Time/Area Diagrams 0  
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details


Rainfall Model FSR Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

Profile(s)


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow / Overflow (l/s)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Flow			
1.000	1	10	117.702	0.847	0.000	0.15	12.0	FLOOD RISK		
1.001	2	10	117.696	0.987	0.000	0.17	14.5	FLOOD RISK		
1.002	3	10	117.687	1.199	0.000	0.11	14.0	SURCHARGED		
1.003	4	10	117.683	1.336	0.000	0.24	43.4	SURCHARGED		
2.000	5	15	118.456	-0.219	0.000	0.16	18.7	OK		
2.001	6	16	118.290	-0.171	0.000	0.39	39.9	OK		
2.002	6	10	118.132	-0.081	0.000	0.34	45.5	OK		
2.003	8	10	118.108	0.760	0.000	0.22	51.6	SURCHARGED		
3.000	9.1	12	118.430	0.005	0.000	0.49	25.7	SURCHARGED		
3.001	9	10	118.362	1.217	0.000	0.26	20.7	FLOOD RISK		
3.002	10	10	118.349	1.366	0.000	0.26	27.3	FLOOD RISK		
3.003	11	10	118.339	1.457	0.000	0.30	52.8	SURCHARGED		
4.000	12	10	118.272	0.986	0.000	0.19	19.2	SURCHARGED		
3.004	13	10	118.267	1.507	0.000	0.23	71.5	SURCHARGED		
3.005	14	9	118.209	1.656	0.000	0.40	99.0	SURCHARGED		
3.006	15	10	118.099	1.634	0.000	0.45	101.3	SURCHARGED		
2.004	16	10	118.096	1.653	0.000	0.44	152.5	SURCHARGED		
2.005	17	10	118.084	1.731	0.000	0.41	172.1	SURCHARGED		
5.000	18	10	117.946	1.059	0.000	0.08	10.1	SURCHARGED		
2.006	19	10	117.942	1.763	0.000	0.45	187.8	SURCHARGED		
2.007	20	10	117.802	1.795	0.000	0.49	196.1	SURCHARGED		
1.004	21	10	117.667	1.819	0.000	0.69	237.9	SURCHARGED		

M-EC		Page 188
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	9	117.658	1.871	0.000	0.43		268.1	SURCHARGED
6.000	23	10	117.769	0.839	0.000	0.32		14.5	SURCHARGED
6.001	24	10	117.746	1.053	0.000	0.35		13.0	SURCHARGED
6.002	25	10	117.736	1.111	0.000	0.29		21.6	SURCHARGED
6.003	26	10	117.715	1.400	0.000	0.45		27.4	SURCHARGED
6.004	27	10	117.705	1.449	0.000	0.32		40.7	SURCHARGED
6.005	28	9	117.651	1.668	0.000	0.17		39.3	SURCHARGED
1.006	29	9	117.643	2.013	0.000	0.39		328.2	SURCHARGED
7.000	30	15	118.118	-0.142	0.000	0.29		11.5	OK
7.001	31	15	117.941	-0.154	0.000	0.22		25.9	OK
1.007	8	9	117.463	2.122	0.000	0.47		352.1	SURCHARGED
8.000	60	9	117.315	0.459	0.000	0.20		7.8	SURCHARGED
8.001	61	9	117.309	0.625	0.000	0.08		8.5	SURCHARGED
8.002	35	9	117.306	0.878	0.000	0.04		10.4	SURCHARGED
1.008	10	9	117.301	2.222	0.000	1.07		354.0	SURCHARGED
9.000	62	15	119.121	-0.179	0.000	0.34		28.3	OK
10.000	40	15	119.008	0.040	0.000	1.35		83.2	SURCHARGED
9.001	63	15	118.843	-0.136	0.000	0.73		122.0	OK
9.002	64	15	118.293	-0.225	0.000	0.34		154.8	OK
9.003	148	9	117.447	2.181	0.000	0.61		155.3	SURCHARGED
1.009	11	9	117.292	2.232	0.000	0.69		505.1	SURCHARGED
1.010	12	8	117.273	2.297	0.000	1.37		511.0	SURCHARGED
1.011	13	8	117.260	2.306	0.000	1.17		510.5	SURCHARGED
1.012	14	8	117.243	2.322	0.000	0.54		510.5	SURCHARGED
1.013	15	8	117.232	2.362	0.000	1.11		506.6	SURCHARGED
1.014	16	8	117.222	2.375	0.000	0.55		502.4	SURCHARGED
11.000	TWC16	15	117.709	-0.132	0.000	0.36		35.1	OK
11.001	TWC17	8	117.221	1.561	0.000	0.26		33.2	SURCHARGED
1.015	17	8	117.211	2.341	0.000	0.37		527.3	SURCHARGED
1.016	18	8	117.200	2.433	0.000	0.39		527.8	SURCHARGED
12.000	TWC1	16	117.662	-0.139	0.000	0.31		11.6	OK
12.001	TWC2	16	117.515	-0.121	0.000	0.44		16.7	OK
12.002	TWC3	16	117.443	0.073	0.000	0.93		31.9	SURCHARGED
12.003	TWC4	14	117.428	0.131	0.000	0.95		31.3	SURCHARGED
13.000	TWC5	15	118.182	-0.108	0.000	0.53		20.1	OK
13.001	TWC6	15	118.019	-0.049	0.000	0.97		36.1	OK
13.002	TWC7	15	117.804	-0.094	0.000	0.64		45.6	OK
12.004	TWC8	12	117.416	0.174	0.000	0.85		82.0	SURCHARGED
12.005	TWC9	10	117.341	0.173	0.000	1.02		90.0	SURCHARGED
12.006	TWC10	10	117.285	0.165	0.000	0.58		93.4	SURCHARGED
1.017	TWC11	8	117.189	2.522	0.000	0.42		608.1	SURCHARGED
1.018	19	8	117.178	2.585	0.000	0.29		607.4	SURCHARGED
14.000	TWC12	16	117.250	-0.159	0.000	0.19		7.0	OK
14.001	TWC13	8	117.177	-0.075	0.000	0.10		13.2	OK
14.002	TWC14	8	117.171	0.892	0.000	0.33		25.7	SURCHARGED
1.019	TWC15	8	117.167	2.839	0.000	0.50		626.2	SURCHARGED
15.000	65	10	117.492	0.123	0.000	0.41		28.4	SURCHARGED
16.000	136	15	118.047	-0.167	0.000	0.15		9.1	OK
16.001	137	15	117.744	-0.163	0.000	0.17		9.6	OK

M-EC		Page 189
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	16	117.492	-0.227	0.000	0.14		17.5	OK
15.001	66	10	117.476	0.290	0.000	0.52		61.1	SURCHARGED
15.002	67	10	117.432	0.388	0.000	0.60		67.5	SURCHARGED
17.000	9	10	117.386	-0.198	0.000	0.03		2.4	OK
17.001	75	10	117.385	-0.012	0.000	0.21		16.3	OK
17.002	76	10	117.377	0.157	0.000	0.08		30.5	SURCHARGED
15.003	68	10	117.375	0.430	0.000	0.43		102.9	SURCHARGED
15.004	69	10	117.296	0.479	0.000	0.36		114.8	SURCHARGED
15.005	70	10	117.286	0.558	0.000	0.38		106.6	SURCHARGED
15.006	71	10	117.278	0.604	0.000	0.40		123.1	SURCHARGED
18.000	147	10	117.292	0.321	0.000	0.14		5.6	SURCHARGED
18.001	112	10	117.288	0.441	0.000	0.24		12.8	SURCHARGED
18.002	113	10	117.285	0.482	0.000	0.12		14.9	SURCHARGED
19.000	115	16	117.310	-0.184	0.000	0.08		3.7	OK
19.001	116	10	117.289	0.059	0.000	0.14		10.7	SURCHARGED
18.003	77	10	117.282	0.532	0.000	0.20		24.7	SURCHARGED
20.000	134	13	117.288	-0.144	0.000	0.15		12.4	OK
18.004	135	10	117.279	0.579	0.000	0.26		43.1	SURCHARGED
18.005	78	10	117.273	0.628	0.000	0.27		46.7	SURCHARGED
15.007	72	10	117.268	0.670	0.000	0.61		173.7	SURCHARGED
15.008	73	10	117.247	0.793	0.000	0.84		179.0	SURCHARGED
15.009	74	10	117.233	0.822	0.000	1.09		176.6	SURCHARGED
15.010	98	9	117.222	0.837	0.000	0.64		172.0	SURCHARGED
15.011	99	9	117.202	0.919	0.000	0.61		172.9	SURCHARGED
15.012	101	8	117.178	1.079	0.000	0.62		170.7	SURCHARGED
21.000	142	10	117.359	0.070	0.000	0.31		14.3	SURCHARGED
21.001	143	7	117.346	0.479	0.000	0.36		21.5	SURCHARGED
22.000	118	10	117.460	0.154	0.000	0.03		1.0	SURCHARGED
22.001	119	10	117.460	0.240	0.000	0.21		6.6	SURCHARGED
22.002	120	10	117.457	0.296	0.000	0.32		20.0	SURCHARGED
23.000	129	10	117.446	0.569	0.000	0.13		10.4	SURCHARGED
23.001	130	9	117.442	0.700	0.000	0.11		11.5	SURCHARGED
22.003	121	8	117.437	0.943	0.000	0.59		38.4	SURCHARGED
24.000	131	10	117.474	0.395	0.000	0.46		19.4	SURCHARGED
24.001	132	10	117.453	0.671	0.000	0.89		24.3	SURCHARGED
24.002	133	7	117.440	0.699	0.000	0.21		27.1	SURCHARGED
22.004	122	7	117.429	1.005	0.000	0.38		68.4	SURCHARGED
22.005	123	7	117.378	1.049	0.000	0.52		78.2	SURCHARGED
25.000	139	10	117.388	0.502	0.000	0.50		13.5	SURCHARGED
25.001	140	10	117.378	0.604	0.000	0.49		29.9	SURCHARGED
22.006	124	7	117.357	1.095	0.000	0.74		110.7	SURCHARGED
22.007	125	7	117.341	1.134	0.000	0.40		109.2	SURCHARGED
22.008	126	7	117.334	1.175	0.000	0.21		115.5	SURCHARGED
22.009	127	7	117.329	1.266	0.000	0.46		113.2	SURCHARGED
21.002	149	7	117.324	1.309	0.000	0.16		130.2	SURCHARGED
1.020	20	8	117.155	3.601	0.000	6.93		459.1	SURCHARGED
1.021	108	9	116.217	2.672	0.000	1.82		456.1	SURCHARGED
1.022	21	10	115.921	2.512	0.000	1.78		452.8	SURCHARGED
1.023	22	9	115.513	2.292	0.000	1.85		451.9	SURCHARGED

M-EC		Page 190
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	15	119.346	-0.592	0.000	0.04		26.5	OK
26.001	90	15	119.020	-0.587	0.000	0.04		31.3	OK
27.000	200	15	119.578	-0.238	0.000	0.10		15.1	OK
27.001	109	15	118.873	-0.406	0.000	0.12		17.0	OK
26.002	91	15	118.646	-0.602	0.000	0.09		48.2	OK
28.000	TWD27	15	119.416	-0.201	0.000	0.24		30.8	OK
26.003	91A	15	118.520	-0.642	0.000	0.11		84.8	OK
26.004	92	15	118.451	-0.613	0.000	0.15		96.3	OK
26.005	93	15	118.372	-0.631	0.000	0.12		96.0	OK
29.000	TWD29	15	119.438	-0.127	0.000	0.39		14.1	OK
29.001	TWD30	15	119.283	-0.175	0.000	0.36		23.3	OK
29.002	TWD31	15	119.133	-0.215	0.000	0.18		31.2	OK
26.006	94	15	118.268	-0.598	0.000	0.17		128.1	OK
26.007	95	15	118.159	-0.596	0.000	0.17		131.5	OK
30.000	201	15	119.241	-0.200	0.000	0.25		20.5	OK
30.001	202	15	119.017	-0.173	0.000	0.37		27.8	OK
30.002	203	15	118.976	-0.125	0.000	0.64		48.2	OK
30.003	204	15	118.741	-0.242	0.000	0.27		56.7	OK
30.004	117	15	118.502	-0.169	0.000	0.58		60.2	OK
26.008	95A	15	118.068	-0.543	0.000	0.25		202.1	OK
26.009	96	15	117.867	-0.566	0.000	0.21		200.9	OK
26.010	97	15	117.449	-0.589	0.000	0.18		202.3	OK
31.000	121	15	117.138	-0.482	0.000	0.36		131.1	OK
32.000	TWD4	15	120.097	-0.164	0.000	0.17		8.2	OK
32.001	TWD5	15	119.908	-0.141	0.000	0.30		18.0	OK
33.000	TWD16	15	119.554	-0.157	0.000	0.46		29.9	OK
32.002	TWD6	15	119.397	-0.191	0.000	0.48		51.4	OK
34.000	TWD17	15	119.553	-0.154	0.000	0.22		11.2	OK
35.000	TWD18	15	119.479	-0.159	0.000	0.19		7.9	OK
32.003	TWD7	15	119.243	-0.197	0.000	0.45		75.2	OK
32.004	TWD8	15	118.746	-0.237	0.000	0.45		92.8	OK
32.005	TWD9	15	118.650	-0.201	0.000	0.59		98.9	OK
32.006	TWD10	15	118.602	-0.199	0.000	0.59		99.9	OK
36.000	TWD19	15	119.599	-0.122	0.000	0.43		29.7	OK
32.007	TWD11	15	117.556	-0.165	0.000	0.88		133.2	OK
37.000	TWD20	15	119.345	-0.141	0.000	0.30		11.3	OK
37.001	TWD21	15	119.091	-0.180	0.000	0.34		22.6	OK
37.002	TWD22	15	118.912	-0.154	0.000	0.47		32.0	OK
37.003	TWD23	15	118.649	-0.211	0.000	0.39		41.8	OK
37.004	TWD24	15	118.533	-0.253	0.000	0.23		48.7	OK
37.005	TWD25	15	118.048	-0.250	0.000	0.24		55.2	OK
32.008	TWD12	15	117.434	-0.266	0.000	0.56		196.9	OK
38.000	TWD26	15	119.282	-0.168	0.000	0.15		14.7	OK
32.009	TWD13	15	117.334	-0.281	0.000	0.49		215.5	OK
32.010	TWD14	15	117.277	-0.270	0.000	0.55		224.1	OK
32.011	TWD15	15	117.229	-0.266	0.000	0.75		233.9	OK
26.011	98	15	116.899	-0.689	0.000	0.25		557.8	OK
26.012	99	15	116.413	-0.607	0.000	0.34		558.1	OK
26.013	100	15	116.335	-0.394	0.000	0.71		555.4	OK

M-EC		Page 191
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 100 year Summer I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	9	115.311	2.179	0.000	2.54	657.5	657.5	SURCHARGED
1.025	24	9	113.989	1.063	0.000	2.57	657.5	657.5	SURCHARGED
1.026	25	13	113.099	0.310	0.000	1.03	657.6	657.6	SURCHARGED
39.000	79	15	121.682	-0.491	0.000	0.01	6.3	6.3	OK
39.001	80	15	121.299	-0.460	0.000	0.04	17.6	17.6	OK
39.002	81	15	120.737	-0.590	0.000	0.04	21.7	21.7	OK
40.000	130	15	121.046	-0.155	0.000	0.21	7.1	7.1	OK
41.000	BAR1	15	121.716	-0.089	0.000	0.35	10.1	10.1	OK
41.001	131	15	120.909	-0.265	0.000	0.19	18.0	18.0	OK
39.003	81A	15	120.588	-0.546	0.000	0.08	50.0	50.0	OK
42.000	133	15	120.698	-0.248	0.000	0.07	3.9	3.9	OK
39.004	82	15	120.326	-0.579	0.000	0.12	63.2	63.2	OK
39.005	83	15	120.243	-0.592	0.000	0.10	62.9	62.9	OK
43.000	BAR2	15	121.547	-0.082	0.000	0.42	13.1	13.1	OK
43.001	136	15	120.453	-0.239	0.000	0.29	21.1	21.1	OK
39.006	83A	15	120.119	-0.551	0.000	0.15	90.0	90.0	OK
44.000	206	15	120.580	-0.277	0.000	0.13	13.5	13.5	OK
44.001	207	15	120.572	-0.248	0.000	0.14	16.6	16.6	OK
44.002	208	15	120.563	-0.213	0.000	0.21	28.1	28.1	OK
44.003	209	15	120.532	-0.173	0.000	0.31	28.4	28.4	OK
45.000	210	15	120.923	-0.162	0.000	0.18	7.9	7.9	OK
45.001	211	15	120.737	-0.205	0.000	0.22	14.4	14.4	OK
45.002	212	15	120.535	-0.221	0.000	0.20	21.3	21.3	OK
44.004	213	15	120.522	-0.160	0.000	0.61	63.6	63.6	OK
44.005	214	15	120.487	-0.158	0.000	0.49	66.3	66.3	OK
44.006	215	15	120.447	-0.134	0.000	0.82	77.5	77.5	OK
44.007	138	15	120.363	-0.194	0.000	0.61	77.7	77.7	OK
39.007	84	15	120.021	-0.504	0.000	0.30	181.5	181.5	OK
46.000	BAR4	15	121.595	-0.114	0.000	0.49	18.4	18.4	OK
46.001	BAR5	15	121.406	-0.082	0.000	0.72	25.9	25.9	OK
47.000	BAR6	15	122.071	-0.080	0.000	0.44	7.5	7.5	OK
47.001	BAR7	15	121.754	-0.117	0.000	0.46	17.0	17.0	OK
47.002	BAR8	15	121.601	-0.126	0.000	0.40	23.7	23.7	OK
46.002	BAR9	15	121.301	-0.078	0.000	0.89	55.0	55.0	OK
46.003	BAR10	15	121.138	-0.163	0.000	0.42	69.5	69.5	OK
46.004	140	15	120.291	-0.204	0.000	0.58	69.5	69.5	OK
39.008	85	15	119.969	-0.499	0.000	0.33	250.3	250.3	OK
39.009	86	15	119.834	-0.500	0.000	0.32	260.5	260.5	OK
48.000	BAR3	15	120.850	-0.098	0.000	0.27	8.8	8.8	OK
48.001	143	15	119.845	-0.329	0.000	0.16	18.4	18.4	OK
49.000	216	15	120.450	-0.220	0.000	0.16	27.5	27.5	OK
49.001	144	15	119.887	-0.308	0.000	0.22	29.2	29.2	OK
39.010	87	15	119.603	-0.549	0.000	0.32	305.4	305.4	OK
39.011	88	15	119.491	-0.516	0.000	0.37	354.9	354.9	OK
39.012	103	15	119.383	-0.468	0.000	0.40	384.9	384.9	OK
50.000	BAR11	15	121.372	-0.073	0.000	0.52	9.0	9.0	OK
50.001	BAR12	15	121.015	-0.123	0.000	0.43	21.9	21.9	OK
51.000	BAR13	15	120.821	-0.147	0.000	0.11	3.6	3.6	OK
50.002	BAR14	15	120.816	-0.103	0.000	0.57	30.5	30.5	OK

M-EC		Page 192
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 240 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	15	120.877	-0.074	0.000	0.50		8.5	OK
52.001	BAR16	15	120.592	-0.134	0.000	0.35		15.2	OK
50.003	BAR17	15	120.522	-0.096	0.000	0.80		49.1	OK
50.004	BAR18	15	120.457	-0.084	0.000	0.86		54.5	OK
50.005	BAR19	15	120.272	-0.177	0.000	0.35		61.4	OK
50.006	149	15	119.462	-0.263	0.000	0.36		61.3	OK
53.000	TWD1	15	120.449	-0.165	0.000	0.16		6.2	OK
54.000	TWD3	15	120.688	-0.194	0.000	0.05		3.9	OK
53.001	TWD2	15	120.091	-0.155	0.000	0.21		19.3	OK
39.013	104	15	119.269	-0.401	0.000	0.69		464.4	OK
39.014	104A	15	119.074	-0.561	0.000	0.41		467.4	OK
55.000	BAR20	15	121.433	-0.060	0.000	0.66		11.6	OK
55.001	BAR21	15	120.927	-0.126	0.000	0.40		21.7	OK
56.000	BAR22	15	120.495	-0.110	0.000	0.52		18.8	OK
56.001	BAR23	15	120.389	-0.080	0.000	0.74		24.2	OK
55.002	BAR24	15	120.279	-0.135	0.000	0.58		47.5	OK
55.003	BAR25	15	120.013	-0.181	0.000	0.52		56.0	OK
55.004	BAR26	15	119.858	-0.258	0.000	0.21		67.0	OK
39.015	105	15	118.907	-0.567	0.000	0.39		526.4	OK
39.016	106	15	118.751	-1.396	0.000	0.07		522.4	OK
39.017	107	15	116.075	-0.472	0.000	0.28		518.0	OK
1.027	26	15	112.384	-0.524	0.000	0.31		1157.3	OK
1.028	27	15	109.544	-0.203	0.000	0.56		1155.4	FLOOD RISK*
1.029	28	15	106.608	-0.583	0.000	0.25		1151.9	OK
1.030	29	15	97.671	-0.806	0.000	0.19		1148.6	OK
1.031	30	15	93.133	-0.249	0.000	0.55		1145.3	FLOOD RISK*
1.032	31	14	92.082	-0.168	0.000	0.72		1137.1	FLOOD RISK*
1.033	32	20	91.570	-0.553	0.000	0.36		1128.9	OK
1.034	33	10	91.539	1.266	0.000	1.21		296.4	SURCHARGED*
57.000	108	23	91.411	-0.475	0.000	0.42		683.4	OK
57.001	109	23	91.287	-0.599	0.000	0.34		645.6	OK
57.002	110	11	91.287	-0.599	0.000	0.24		587.1	OK
1.035	109	10	91.288	1.422	0.000	0.28		66.5	SURCHARGED*
1.036	34	43	86.650	0.000	0.000	0.77		63.8	SURCHARGED*



M-EC		Page 193
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 100 year Summer I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0 Inlet Coefficient 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 4  
Number of Online Controls 1 Number of Time/Area Diagrams 0  
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details


Rainfall Model FSR Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

Profile(s)


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow		
1.000	1	12	117.413	0.558	0.000	0.11	9.0	SURCHARGED	
1.001	2	12	117.408	0.699	0.000	0.13	11.5	SURCHARGED	
1.002	3	12	117.401	0.913	0.000	0.09	11.0	SURCHARGED	
1.003	4	12	117.397	1.050	0.000	0.18	32.7	SURCHARGED	
2.000	5	23	118.443	-0.232	0.000	0.12	13.6	OK	
2.001	6	23	118.269	-0.192	0.000	0.28	28.9	OK	
2.002	6	22	118.013	-0.200	0.000	0.24	33.1	OK	
2.003	8	12	117.824	0.476	0.000	0.16	38.4	SURCHARGED	
3.000	9.1	23	118.293	-0.132	0.000	0.36	18.9	OK	
3.001	9	12	118.021	0.876	0.000	0.20	16.3	SURCHARGED	
3.002	10	12	118.009	1.026	0.000	0.20	21.5	SURCHARGED	
3.003	11	12	117.999	1.117	0.000	0.23	40.3	SURCHARGED	
4.000	12	12	117.969	0.683	0.000	0.13	13.6	SURCHARGED	
3.004	13	12	117.963	1.203	0.000	0.17	53.3	SURCHARGED	
3.005	14	12	117.923	1.370	0.000	0.30	73.4	SURCHARGED	
3.006	15	12	117.815	1.350	0.000	0.33	74.6	SURCHARGED	
2.004	16	12	117.811	1.368	0.000	0.32	110.8	SURCHARGED	
2.005	17	12	117.799	1.446	0.000	0.30	124.9	SURCHARGED	
5.000	18	12	117.661	0.774	0.000	0.06	7.7	SURCHARGED	
2.006	19	12	117.657	1.478	0.000	0.33	136.3	SURCHARGED	
2.007	20	12	117.516	1.509	0.000	0.36	142.4	SURCHARGED	
1.004	21	12	117.381	1.533	0.000	0.50	174.1	SURCHARGED	

M-EC		Page 194
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.005	22	12	117.372	1.585	0.000	0.32	195.6	SURCHARGED
6.000	23	12	117.424	0.494	0.000	0.27	12.0	SURCHARGED
6.001	24	12	117.410	0.717	0.000	0.29	10.8	SURCHARGED
6.002	25	12	117.404	0.779	0.000	0.23	17.2	SURCHARGED
6.003	26	12	117.389	1.074	0.000	0.35	21.4	SURCHARGED
6.004	27	12	117.381	1.125	0.000	0.25	32.1	SURCHARGED
6.005	28	12	117.364	1.381	0.000	0.13	30.9	SURCHARGED
1.006	29	12	117.357	1.727	0.000	0.29	241.8	SURCHARGED
7.000	30	23	118.105	-0.155	0.000	0.21	8.4	OK
7.001	31	22	117.930	-0.165	0.000	0.16	18.8	OK
1.007	8	12	117.177	1.836	0.000	0.35	258.7	SURCHARGED
8.000	60	12	117.029	0.173	0.000	0.15	5.6	SURCHARGED
8.001	61	12	117.023	0.339	0.000	0.06	6.4	SURCHARGED
8.002	35	12	117.019	0.591	0.000	0.03	8.1	SURCHARGED
1.008	10	12	117.015	1.936	0.000	0.79	261.2	SURCHARGED
9.000	62	23	119.101	-0.199	0.000	0.25	20.6	OK
10.000	40	23	118.906	-0.062	0.000	0.99	60.6	OK
9.001	63	23	118.798	-0.181	0.000	0.53	89.2	OK
9.002	64	22	118.268	-0.250	0.000	0.25	113.1	OK
9.003	148	12	117.160	1.894	0.000	0.44	113.8	SURCHARGED
1.009	11	12	117.006	1.946	0.000	0.50	368.8	SURCHARGED
1.010	12	12	116.987	2.011	0.000	1.00	373.4	SURCHARGED
1.011	13	12	116.974	2.020	0.000	0.86	374.0	SURCHARGED
1.012	14	12	116.960	2.039	0.000	0.40	375.0	SURCHARGED
1.013	15	12	116.949	2.079	0.000	0.82	372.5	SURCHARGED
1.014	16	12	116.940	2.093	0.000	0.40	370.8	SURCHARGED
11.000	TWC16	23	117.694	-0.147	0.000	0.26	25.5	OK
11.001	TWC17	12	116.939	1.279	0.000	0.19	24.3	SURCHARGED
1.015	17	12	116.929	2.059	0.000	0.27	386.7	SURCHARGED
1.016	18	11	116.918	2.151	0.000	0.29	384.7	SURCHARGED
12.000	TWC1	23	117.648	-0.153	0.000	0.23	8.5	OK
12.001	TWC2	23	117.498	-0.138	0.000	0.32	12.2	OK
12.002	TWC3	22	117.285	-0.085	0.000	0.71	24.3	OK
12.003	TWC4	22	117.216	-0.081	0.000	0.74	24.3	OK
13.000	TWC5	23	118.162	-0.128	0.000	0.39	14.6	OK
13.001	TWC6	22	117.983	-0.085	0.000	0.70	26.3	OK
13.002	TWC7	22	117.781	-0.117	0.000	0.47	33.2	OK
12.004	TWC8	21	117.108	-0.134	0.000	0.66	64.0	OK
12.005	TWC9	21	117.046	-0.122	0.000	0.79	70.2	OK
12.006	TWC10	20	116.929	-0.191	0.000	0.45	72.6	OK
1.017	TWC11	11	116.908	2.241	0.000	0.31	448.5	SURCHARGED
1.018	19	11	116.897	2.304	0.000	0.22	446.5	SURCHARGED
14.000	TWC12	23	117.239	-0.170	0.000	0.14	5.1	OK
14.001	TWC13	23	117.068	-0.184	0.000	0.08	9.6	OK
14.002	TWC14	11	116.891	0.612	0.000	0.24	19.1	SURCHARGED
1.019	TWC15	11	116.887	2.559	0.000	0.36	458.1	SURCHARGED
15.000	65	23	117.181	-0.188	0.000	0.30	20.7	OK
16.000	136	23	118.039	-0.175	0.000	0.11	6.6	OK
16.001	137	23	117.734	-0.173	0.000	0.12	7.0	OK

M-EC		Page 195
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
16.002	138	23	117.482	-0.237	0.000	0.10	12.7	OK
15.001	66	16	117.135	-0.051	0.000	0.38	44.5	OK
15.002	67	13	117.088	0.044	0.000	0.44	49.7	SURCHARGED
17.000	9	23	117.314	-0.270	0.000	0.02	1.8	OK
17.001	75	22	117.175	-0.222	0.000	0.15	11.8	OK
17.002	76	12	117.043	-0.177	0.000	0.06	22.4	OK
15.003	68	12	117.041	0.096	0.000	0.32	78.0	SURCHARGED
15.004	69	12	117.013	0.196	0.000	0.29	93.0	SURCHARGED
15.005	70	12	117.004	0.276	0.000	0.32	90.1	SURCHARGED
15.006	71	12	116.996	0.322	0.000	0.33	103.0	SURCHARGED
18.000	147	12	117.009	0.038	0.000	0.11	4.2	SURCHARGED
18.001	112	12	117.005	0.158	0.000	0.18	9.5	SURCHARGED
18.002	113	12	117.002	0.199	0.000	0.10	12.0	SURCHARGED
19.000	115	23	117.303	-0.191	0.000	0.06	2.7	OK
19.001	116	22	117.052	-0.178	0.000	0.10	7.7	OK
18.003	77	12	117.000	0.250	0.000	0.17	21.0	SURCHARGED
20.000	134	23	117.256	-0.176	0.000	0.11	9.0	OK
18.004	135	12	116.996	0.296	0.000	0.21	35.3	SURCHARGED
18.005	78	12	116.991	0.346	0.000	0.22	38.0	SURCHARGED
15.007	72	12	116.987	0.389	0.000	0.50	142.3	SURCHARGED
15.008	73	12	116.967	0.513	0.000	0.67	143.4	SURCHARGED
15.009	74	12	116.952	0.541	0.000	0.86	140.4	SURCHARGED
15.010	98	12	116.941	0.556	0.000	0.50	133.5	SURCHARGED
15.011	99	11	116.922	0.639	0.000	0.43	122.6	SURCHARGED
15.012	101	11	116.897	0.798	0.000	0.43	118.9	SURCHARGED
21.000	142	23	117.136	-0.153	0.000	0.23	10.4	OK
21.001	143	12	117.060	0.193	0.000	0.26	15.7	SURCHARGED
22.000	118	12	117.162	-0.144	0.000	0.02	0.7	OK
22.001	119	12	117.162	-0.058	0.000	0.15	4.8	OK
22.002	120	12	117.158	-0.003	0.000	0.23	14.5	OK
23.000	129	12	117.148	0.271	0.000	0.10	8.2	SURCHARGED
23.001	130	12	117.144	0.402	0.000	0.08	8.6	SURCHARGED
22.003	121	12	117.139	0.645	0.000	0.42	27.3	SURCHARGED
24.000	131	14	117.176	0.097	0.000	0.34	14.1	SURCHARGED
24.001	132	12	117.156	0.373	0.000	0.67	18.3	SURCHARGED
24.002	133	12	117.142	0.402	0.000	0.16	21.0	SURCHARGED
22.004	122	12	117.131	0.707	0.000	0.27	49.7	SURCHARGED
22.005	123	10	117.099	0.771	0.000	0.37	56.7	SURCHARGED
25.000	139	12	117.107	0.221	0.000	0.36	9.8	SURCHARGED
25.001	140	12	117.098	0.324	0.000	0.36	21.9	SURCHARGED
22.006	124	11	117.077	0.815	0.000	0.54	80.9	SURCHARGED
22.007	125	11	117.054	0.848	0.000	0.29	79.7	SURCHARGED
22.008	126	11	117.048	0.888	0.000	0.15	84.2	SURCHARGED
22.009	127	11	117.043	0.980	0.000	0.33	81.6	SURCHARGED
21.002	149	11	117.038	1.023	0.000	0.12	94.3	SURCHARGED
1.020	20	11	116.875	3.321	0.000	6.61	438.2	SURCHARGED
1.021	108	11	115.970	2.425	0.000	1.74	437.4	SURCHARGED
1.022	21	13	115.686	2.277	0.000	1.71	435.5	SURCHARGED
1.023	22	16	115.302	2.081	0.000	1.78	436.1	SURCHARGED

M-EC		Page 196
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	23	119.336	-0.602	0.000	0.03		19.2	OK
26.001	90	23	119.008	-0.599	0.000	0.03		22.8	OK
27.000	200	23	119.568	-0.248	0.000	0.07		11.0	OK
27.001	109	23	118.857	-0.422	0.000	0.09		12.3	OK
26.002	91	23	118.619	-0.629	0.000	0.06		35.1	OK
28.000	TWD27	23	119.400	-0.217	0.000	0.17		22.4	OK
26.003	91A	23	118.493	-0.669	0.000	0.08		61.7	OK
26.004	92	23	118.419	-0.645	0.000	0.11		70.3	OK
26.005	93	23	118.345	-0.658	0.000	0.09		70.3	OK
29.000	TWD29	23	119.422	-0.143	0.000	0.28		10.2	OK
29.001	TWD30	23	119.262	-0.196	0.000	0.26		16.9	OK
29.002	TWD31	22	119.120	-0.228	0.000	0.13		22.7	OK
26.006	94	23	118.232	-0.634	0.000	0.12		93.8	OK
26.007	95	23	118.123	-0.632	0.000	0.13		96.6	OK
30.000	201	23	119.226	-0.215	0.000	0.18		14.9	OK
30.001	202	23	118.996	-0.194	0.000	0.27		20.3	OK
30.002	203	22	118.945	-0.156	0.000	0.47		35.1	OK
30.003	204	22	118.721	-0.262	0.000	0.20		41.3	OK
30.004	117	22	118.465	-0.206	0.000	0.42		43.9	OK
26.008	95A	22	118.026	-0.585	0.000	0.19		148.7	OK
26.009	96	22	117.826	-0.607	0.000	0.16		148.4	OK
26.010	97	21	117.412	-0.626	0.000	0.13		147.8	OK
31.000	121	23	117.081	-0.539	0.000	0.26		95.3	OK
32.000	TWD4	23	120.088	-0.173	0.000	0.12		6.0	OK
32.001	TWD5	22	119.895	-0.154	0.000	0.22		13.1	OK
33.000	TWD16	23	119.530	-0.181	0.000	0.33		21.7	OK
32.002	TWD6	23	119.366	-0.222	0.000	0.35		37.5	OK
34.000	TWD17	23	119.541	-0.166	0.000	0.16		8.1	OK
35.000	TWD18	23	119.469	-0.169	0.000	0.14		5.7	OK
32.003	TWD7	22	119.213	-0.227	0.000	0.33		55.1	OK
32.004	TWD8	22	118.711	-0.272	0.000	0.33		67.9	OK
32.005	TWD9	22	118.606	-0.245	0.000	0.43		72.5	OK
32.006	TWD10	22	118.558	-0.243	0.000	0.43		73.3	OK
36.000	TWD19	23	119.582	-0.139	0.000	0.32		21.6	OK
32.007	TWD11	21	117.474	-0.247	0.000	0.65		97.8	OK
37.000	TWD20	23	119.332	-0.154	0.000	0.22		8.3	OK
37.001	TWD21	23	119.071	-0.200	0.000	0.24		16.5	OK
37.002	TWD22	22	118.888	-0.178	0.000	0.35		23.4	OK
37.003	TWD23	20	118.622	-0.238	0.000	0.29		30.5	OK
37.004	TWD24	20	118.514	-0.272	0.000	0.17		35.6	OK
37.005	TWD25	20	118.029	-0.269	0.000	0.18		40.4	OK
32.008	TWD12	19	117.356	-0.344	0.000	0.42		146.1	OK
38.000	TWD26	23	119.274	-0.176	0.000	0.11		10.7	OK
32.009	TWD13	19	117.250	-0.365	0.000	0.37		160.5	OK
32.010	TWD14	19	117.193	-0.354	0.000	0.40		165.2	OK
32.011	TWD15	19	117.145	-0.350	0.000	0.55		171.4	OK
26.011	98	19	116.848	-0.740	0.000	0.19		413.1	OK
26.012	99	19	116.327	-0.693	0.000	0.25		411.6	OK
26.013	100	19	116.226	-0.503	0.000	0.53		411.3	OK

M-EC		Page 197
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 360 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	16	115.114	1.982	0.000	2.46	636.8	SURCHARGED
1.025	24	17	113.874	0.948	0.000	2.49	636.9	SURCHARGED
1.026	25	18	113.033	0.244	0.000	1.00	637.0	SURCHARGED
39.000	79	23	121.673	-0.500	0.000	0.01	4.6	OK
39.001	80	22	121.291	-0.468	0.000	0.03	12.7	OK
39.002	81	22	120.727	-0.600	0.000	0.03	15.8	OK
40.000	130	19	121.035	-0.166	0.000	0.16	5.3	OK
41.000	BAR1	23	121.706	-0.099	0.000	0.25	7.3	OK
41.001	131	23	120.891	-0.283	0.000	0.14	13.1	OK
39.003	81A	22	120.566	-0.568	0.000	0.06	36.5	OK
42.000	133	19	120.690	-0.256	0.000	0.05	2.9	OK
39.004	82	21	120.303	-0.602	0.000	0.09	46.2	OK
39.005	83	21	120.217	-0.618	0.000	0.07	46.1	OK
43.000	BAR2	23	121.535	-0.094	0.000	0.30	9.5	OK
43.001	136	23	120.432	-0.260	0.000	0.21	15.4	OK
39.006	83A	21	120.084	-0.586	0.000	0.11	66.1	OK
44.000	206	21	120.529	-0.328	0.000	0.09	9.9	OK
44.001	207	20	120.513	-0.307	0.000	0.11	12.5	OK
44.002	208	19	120.499	-0.277	0.000	0.16	21.3	OK
44.003	209	19	120.475	-0.229	0.000	0.23	21.1	OK
45.000	210	23	120.913	-0.172	0.000	0.13	5.7	OK
45.001	211	23	120.721	-0.221	0.000	0.16	10.4	OK
45.002	212	19	120.491	-0.265	0.000	0.15	15.6	OK
44.004	213	19	120.468	-0.214	0.000	0.46	48.0	OK
44.005	214	19	120.432	-0.214	0.000	0.37	50.3	OK
44.006	215	19	120.389	-0.192	0.000	0.62	58.6	OK
44.007	138	19	120.322	-0.235	0.000	0.46	58.5	OK
39.007	84	20	119.971	-0.554	0.000	0.23	136.0	OK
46.000	BAR4	23	121.576	-0.133	0.000	0.36	13.4	OK
46.001	BAR5	23	121.379	-0.109	0.000	0.53	18.9	OK
47.000	BAR6	23	122.059	-0.092	0.000	0.32	5.4	OK
47.001	BAR7	22	121.736	-0.135	0.000	0.34	12.3	OK
47.002	BAR8	22	121.585	-0.142	0.000	0.29	17.2	OK
46.002	BAR9	22	121.256	-0.123	0.000	0.65	40.1	OK
46.003	BAR10	22	121.115	-0.186	0.000	0.31	50.7	OK
46.004	140	22	120.248	-0.247	0.000	0.42	50.7	OK
39.008	85	20	119.918	-0.550	0.000	0.24	186.4	OK
39.009	86	20	119.784	-0.550	0.000	0.24	193.7	OK
48.000	BAR3	23	120.842	-0.106	0.000	0.19	6.4	OK
48.001	143	23	119.826	-0.348	0.000	0.12	13.4	OK
49.000	216	23	120.437	-0.233	0.000	0.12	20.0	OK
49.001	144	23	119.864	-0.331	0.000	0.16	21.2	OK
39.010	87	19	119.550	-0.602	0.000	0.24	227.9	OK
39.011	88	19	119.431	-0.576	0.000	0.28	266.1	OK
39.012	103	19	119.296	-0.555	0.000	0.30	286.7	OK
50.000	BAR11	23	121.359	-0.086	0.000	0.38	6.6	OK
50.001	BAR12	22	120.999	-0.139	0.000	0.31	15.9	OK
51.000	BAR13	23	120.802	-0.166	0.000	0.08	2.6	OK
50.002	BAR14	22	120.794	-0.125	0.000	0.41	22.1	OK

M-EC		Page 198
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	23	120.864	-0.087	0.000	0.37		6.2	OK
52.001	BAR16	23	120.577	-0.149	0.000	0.25		11.1	OK
50.003	BAR17	22	120.482	-0.136	0.000	0.58		35.7	OK
50.004	BAR18	22	120.414	-0.127	0.000	0.63		39.7	OK
50.005	BAR19	22	120.251	-0.198	0.000	0.26		44.7	OK
50.006	149	22	119.432	-0.293	0.000	0.26		44.7	OK
53.000	TWD1	23	120.440	-0.174	0.000	0.12		4.5	OK
54.000	TWD3	23	120.683	-0.199	0.000	0.03		2.8	OK
53.001	TWD2	22	120.080	-0.166	0.000	0.16		14.0	OK
39.013	104	19	119.158	-0.512	0.000	0.51		343.4	OK
39.014	104A	19	119.003	-0.632	0.000	0.30		343.8	OK
55.000	BAR20	23	121.417	-0.076	0.000	0.48		8.5	OK
55.001	BAR21	23	120.910	-0.143	0.000	0.29		15.8	OK
56.000	BAR22	23	120.475	-0.130	0.000	0.38		13.7	OK
56.001	BAR23	23	120.362	-0.107	0.000	0.54		17.7	OK
55.002	BAR24	23	120.250	-0.164	0.000	0.43		34.7	OK
55.003	BAR25	22	119.980	-0.214	0.000	0.38		41.0	OK
55.004	BAR26	22	119.839	-0.277	0.000	0.16		48.9	OK
39.015	105	19	118.832	-0.642	0.000	0.29		392.8	OK
39.016	106	19	118.667	-1.480	0.000	0.05		391.7	OK
39.017	107	19	116.003	-0.544	0.000	0.21		388.5	OK
1.027	26	18	112.343	-0.565	0.000	0.27		1019.8	OK
1.028	27	19	109.507	-0.240	0.000	0.49		1020.0	FLOOD RISK*
1.029	28	19	106.568	-0.623	0.000	0.22		1015.5	OK
1.030	29	18	97.631	-0.846	0.000	0.17		1014.9	OK
1.031	30	18	93.089	-0.293	0.000	0.49		1015.8	FLOOD RISK*
1.032	31	18	92.025	-0.225	0.000	0.64		1009.7	FLOOD RISK*
1.033	32	16	91.608	-0.515	0.000	0.32		1007.4	OK
1.034	33	9	91.597	1.324	0.000	1.18		288.0	SURCHARGED*
57.000	108	24	91.392	-0.494	0.000	0.31		509.7	OK
57.001	109	16	91.392	-0.494	0.000	0.25		486.4	OK
57.002	110	9	91.392	-0.494	0.000	0.19		456.9	OK
1.035	109	9	91.392	1.526	0.000	0.26		61.8	SURCHARGED*
1.036	34	42	86.650	0.000	0.000	0.74		61.9	SURCHARGED*

M-EC		Page 199
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 100 year Summer I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0 Inlet Coefficient 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 4  
Number of Online Controls 1 Number of Time/Area Diagrams 0  
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details


Rainfall Model FSR Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

Profile(s)

Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30


PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	1	15	117.105	0.250	0.000	0.10	8.2	SURCHARGED	
1.001	2	15	117.100	0.391	0.000	0.11	9.3	SURCHARGED	
1.002	3	15	117.093	0.605	0.000	0.07	9.2	SURCHARGED	
1.003	4	15	117.089	0.742	0.000	0.15	26.7	SURCHARGED	
2.000	5	26	118.437	-0.238	0.000	0.09	10.8	OK	
2.001	6	26	118.256	-0.205	0.000	0.22	23.0	OK	
2.002	6	26	118.002	-0.211	0.000	0.19	26.4	OK	
2.003	8	13	117.590	0.242	0.000	0.14	32.5	SURCHARGED	
3.000	9.1	26	118.282	-0.143	0.000	0.29	15.0	OK	
3.001	9	14	117.767	0.622	0.000	0.18	14.3	SURCHARGED	
3.002	10	14	117.755	0.772	0.000	0.16	16.8	SURCHARGED	
3.003	11	14	117.746	0.864	0.000	0.18	32.3	SURCHARGED	
4.000	12	14	117.700	0.414	0.000	0.12	12.5	SURCHARGED	
3.004	13	13	117.696	0.936	0.000	0.13	42.4	SURCHARGED	
3.005	14	13	117.689	1.136	0.000	0.24	58.1	SURCHARGED	
3.006	15	13	117.619	1.154	0.000	0.26	58.9	SURCHARGED	
2.004	16	13	117.617	1.174	0.000	0.25	85.8	SURCHARGED	
2.005	17	15	117.494	1.141	0.000	0.23	97.8	SURCHARGED	
5.000	18	15	117.348	0.461	0.000	0.05	6.2	SURCHARGED	
2.006	19	15	117.344	1.165	0.000	0.26	107.8	SURCHARGED	
2.007	20	15	117.206	1.199	0.000	0.28	113.6	SURCHARGED	
1.004	21	15	117.074	1.226	0.000	0.40	139.8	SURCHARGED	

M-EC		Page 200
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 100 year Summer I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.005	22	15	117.066	1.279	0.000	0.25	157.9	SURCHARGED
6.000	23	15	117.115	0.185	0.000	0.22	10.0	SURCHARGED
6.001	24	15	117.102	0.409	0.000	0.26	9.5	SURCHARGED
6.002	25	15	117.096	0.471	0.000	0.20	14.9	SURCHARGED
6.003	26	15	117.082	0.767	0.000	0.31	18.9	SURCHARGED
6.004	27	15	117.075	0.819	0.000	0.21	26.9	SURCHARGED
6.005	28	15	117.058	1.075	0.000	0.11	25.0	SURCHARGED
1.006	29	15	117.051	1.421	0.000	0.23	195.7	SURCHARGED
7.000	30	26	118.097	-0.163	0.000	0.17	6.7	OK
7.001	31	26	117.923	-0.172	0.000	0.13	15.0	OK
1.007	8	15	116.870	1.529	0.000	0.28	209.8	SURCHARGED
8.000	60	18	116.720	-0.136	0.000	0.12	4.5	OK
8.001	61	15	116.714	0.030	0.000	0.05	5.2	SURCHARGED
8.002	35	15	116.711	0.283	0.000	0.03	7.4	SURCHARGED
1.008	10	15	116.707	1.628	0.000	0.64	212.2	SURCHARGED
9.000	62	26	119.090	-0.210	0.000	0.20	16.4	OK
10.000	40	26	118.869	-0.099	0.000	0.78	48.2	OK
9.001	63	26	118.774	-0.205	0.000	0.42	71.0	OK
9.002	64	26	118.255	-0.263	0.000	0.20	90.1	OK
9.003	148	15	116.853	1.587	0.000	0.36	91.1	SURCHARGED
1.009	11	15	116.698	1.638	0.000	0.41	297.8	SURCHARGED
1.010	12	15	116.680	1.704	0.000	0.81	301.3	SURCHARGED
1.011	13	15	116.668	1.714	0.000	0.69	301.7	SURCHARGED
1.012	14	15	116.652	1.731	0.000	0.32	301.9	SURCHARGED
1.013	15	15	116.641	1.771	0.000	0.66	299.6	SURCHARGED
1.014	16	15	116.630	1.783	0.000	0.32	295.7	SURCHARGED
11.000	TWC16	26	117.685	-0.156	0.000	0.21	20.3	OK
11.001	TWC17	15	116.631	0.971	0.000	0.16	19.6	SURCHARGED
1.015	17	15	116.619	1.749	0.000	0.22	309.2	SURCHARGED
1.016	18	15	116.607	1.840	0.000	0.23	310.1	SURCHARGED
12.000	TWC1	26	117.640	-0.161	0.000	0.18	6.7	OK
12.001	TWC2	26	117.488	-0.148	0.000	0.25	9.7	OK
12.002	TWC3	25	117.266	-0.104	0.000	0.56	19.4	OK
12.003	TWC4	25	117.196	-0.101	0.000	0.59	19.4	OK
13.000	TWC5	26	118.150	-0.140	0.000	0.31	11.6	OK
13.001	TWC6	26	117.964	-0.104	0.000	0.56	21.0	OK
13.002	TWC7	25	117.768	-0.130	0.000	0.37	26.4	OK
12.004	TWC8	25	117.073	-0.169	0.000	0.53	51.0	OK
12.005	TWC9	25	117.010	-0.158	0.000	0.63	55.9	OK
12.006	TWC10	26	116.900	-0.220	0.000	0.36	57.8	OK
1.017	TWC11	15	116.596	1.929	0.000	0.24	357.1	SURCHARGED
1.018	19	15	116.585	1.992	0.000	0.17	357.5	SURCHARGED
14.000	TWC12	26	117.233	-0.176	0.000	0.11	4.1	OK
14.001	TWC13	26	117.063	-0.189	0.000	0.06	7.6	OK
14.002	TWC14	15	116.578	0.299	0.000	0.19	15.2	SURCHARGED
1.019	TWC15	15	116.574	2.246	0.000	0.29	370.4	SURCHARGED
15.000	65	27	117.168	-0.201	0.000	0.24	16.5	OK
16.000	136	26	118.034	-0.180	0.000	0.09	5.2	OK
16.001	137	26	117.729	-0.178	0.000	0.10	5.6	OK



M-EC		Page 201
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	26	117.475	-0.244	0.000	0.08		10.1	OK
15.001	66	19	117.001	-0.185	0.000	0.30		35.4	OK
15.002	67	17	116.967	-0.077	0.000	0.35		40.0	OK
17.000	9	26	117.309	-0.275	0.000	0.02		1.4	OK
17.001	75	25	117.166	-0.231	0.000	0.12		9.4	OK
17.002	76	19	116.915	-0.305	0.000	0.04		18.0	OK
15.003	68	19	116.912	-0.033	0.000	0.27		65.2	OK
15.004	69	19	116.817	0.000	0.000	0.24		76.8	OK
15.005	70	21	116.728	0.000	0.000	0.26		74.3	OK
15.006	71	18	116.692	0.018	0.000	0.27		85.4	SURCHARGED
18.000	147	27	116.790	-0.181	0.000	0.09		3.3	OK
18.001	112	19	116.750	-0.097	0.000	0.15		7.6	OK
18.002	113	19	116.746	-0.057	0.000	0.08		9.8	OK
19.000	115	26	117.299	-0.195	0.000	0.04		2.2	OK
19.001	116	26	117.047	-0.183	0.000	0.08		6.2	OK
18.003	77	19	116.736	-0.014	0.000	0.14		17.3	OK
20.000	134	26	117.251	-0.181	0.000	0.08		7.2	OK
18.004	135	18	116.700	0.000	0.000	0.18		29.8	OK
18.005	78	16	116.688	0.043	0.000	0.19		33.1	SURCHARGED
15.007	72	16	116.682	0.084	0.000	0.43		121.4	SURCHARGED
15.008	73	15	116.661	0.207	0.000	0.57		122.6	SURCHARGED
15.009	74	15	116.645	0.234	0.000	0.74		120.3	SURCHARGED
15.010	98	15	116.633	0.248	0.000	0.44		117.1	SURCHARGED
15.011	99	15	116.612	0.329	0.000	0.39		111.7	SURCHARGED
15.012	101	15	116.585	0.486	0.000	0.47		130.3	SURCHARGED
21.000	142	26	117.128	-0.161	0.000	0.18		8.3	OK
21.001	143	19	116.757	-0.110	0.000	0.21		12.5	OK
22.000	118	27	117.100	-0.206	0.000	0.02		0.6	OK
22.001	119	26	117.047	-0.173	0.000	0.12		3.8	OK
22.002	120	26	117.001	-0.160	0.000	0.19		11.6	OK
23.000	129	15	116.834	-0.043	0.000	0.08		6.5	OK
23.001	130	14	116.830	0.088	0.000	0.08		7.9	SURCHARGED
22.003	121	14	116.825	0.331	0.000	0.37		24.1	SURCHARGED
24.000	131	27	116.933	-0.146	0.000	0.27		11.2	OK
24.001	132	18	116.840	0.057	0.000	0.55		14.8	SURCHARGED
24.002	133	14	116.827	0.087	0.000	0.13		17.1	SURCHARGED
22.004	122	14	116.817	0.393	0.000	0.23		41.6	SURCHARGED
22.005	123	14	116.797	0.469	0.000	0.29		44.2	SURCHARGED
25.000	139	19	116.802	-0.084	0.000	0.29		7.8	OK
25.001	140	16	116.792	0.018	0.000	0.28		17.5	SURCHARGED
22.006	124	14	116.768	0.506	0.000	0.41		61.7	SURCHARGED
22.007	125	14	116.751	0.544	0.000	0.22		61.3	SURCHARGED
22.008	126	14	116.744	0.585	0.000	0.12		65.6	SURCHARGED
22.009	127	14	116.739	0.676	0.000	0.26		64.8	SURCHARGED
21.002	149	14	116.734	0.719	0.000	0.09		74.5	SURCHARGED
1.020	20	15	116.561	3.007	0.000	6.20		411.0	SURCHARGED
1.021	108	21	115.644	2.099	0.000	1.64		411.7	SURCHARGED
1.022	21	21	115.431	2.022	0.000	1.62		412.1	SURCHARGED
1.023	22	21	115.144	1.923	0.000	1.69		412.5	SURCHARGED

M-EC		Page 202
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 480 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	26	119.331	-0.607	0.000	0.02		15.3	OK
26.001	90	26	119.002	-0.605	0.000	0.02		18.1	OK
27.000	200	26	119.562	-0.254	0.000	0.06		8.7	OK
27.001	109	26	118.843	-0.436	0.000	0.07		9.8	OK
26.002	91	26	118.605	-0.643	0.000	0.05		27.9	OK
28.000	TWD27	26	119.391	-0.226	0.000	0.14		17.8	OK
26.003	91A	26	118.473	-0.689	0.000	0.06		49.1	OK
26.004	92	26	118.401	-0.663	0.000	0.09		56.0	OK
26.005	93	26	118.324	-0.679	0.000	0.07		56.0	OK
29.000	TWD29	26	119.412	-0.153	0.000	0.23		8.1	OK
29.001	TWD30	26	119.251	-0.207	0.000	0.21		13.5	OK
29.002	TWD31	26	119.112	-0.236	0.000	0.10		18.0	OK
26.006	94	26	118.213	-0.653	0.000	0.10		74.7	OK
26.007	95	26	118.104	-0.651	0.000	0.10		76.9	OK
30.000	201	26	119.216	-0.225	0.000	0.14		11.9	OK
30.001	202	26	118.984	-0.206	0.000	0.22		16.1	OK
30.002	203	26	118.927	-0.174	0.000	0.37		27.9	OK
30.003	204	26	118.707	-0.276	0.000	0.16		32.8	OK
30.004	117	25	118.445	-0.226	0.000	0.34		34.9	OK
26.008	95A	26	117.997	-0.614	0.000	0.15		118.3	OK
26.009	96	25	117.801	-0.632	0.000	0.13		118.4	OK
26.010	97	25	117.392	-0.646	0.000	0.11		118.3	OK
31.000	121	26	117.050	-0.570	0.000	0.21		75.8	OK
32.000	TWD4	26	120.083	-0.178	0.000	0.10		4.7	OK
32.001	TWD5	26	119.887	-0.162	0.000	0.17		10.4	OK
33.000	TWD16	26	119.516	-0.195	0.000	0.27		17.3	OK
32.002	TWD6	26	119.347	-0.241	0.000	0.28		29.9	OK
34.000	TWD17	26	119.535	-0.172	0.000	0.12		6.5	OK
35.000	TWD18	26	119.463	-0.175	0.000	0.11		4.6	OK
32.003	TWD7	26	119.195	-0.245	0.000	0.26		43.8	OK
32.004	TWD8	26	118.689	-0.294	0.000	0.26		54.0	OK
32.005	TWD9	25	118.582	-0.269	0.000	0.34		57.7	OK
32.006	TWD10	25	118.533	-0.268	0.000	0.35		58.4	OK
36.000	TWD19	26	119.572	-0.149	0.000	0.25		17.2	OK
32.007	TWD11	25	117.427	-0.294	0.000	0.52		77.8	OK
37.000	TWD20	26	119.324	-0.162	0.000	0.17		6.6	OK
37.001	TWD21	26	119.060	-0.211	0.000	0.19		13.1	OK
37.002	TWD22	25	118.873	-0.193	0.000	0.28		18.6	OK
37.003	TWD23	25	118.606	-0.254	0.000	0.23		24.3	OK
37.004	TWD24	25	118.502	-0.284	0.000	0.13		28.4	OK
37.005	TWD25	25	118.016	-0.282	0.000	0.14		32.2	OK
32.008	TWD12	25	117.311	-0.389	0.000	0.33		116.4	OK
38.000	TWD26	26	119.269	-0.181	0.000	0.08		8.5	OK
32.009	TWD13	24	117.200	-0.415	0.000	0.29		128.4	OK
32.010	TWD14	24	117.142	-0.405	0.000	0.32		132.9	OK
32.011	TWD15	24	117.094	-0.401	0.000	0.44		138.4	OK
26.011	98	25	116.810	-0.778	0.000	0.15		332.3	OK
26.012	99	24	116.288	-0.732	0.000	0.20		331.5	OK
26.013	100	24	116.157	-0.572	0.000	0.42		327.8	OK

M-EC		Page 203
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	21	115.000	1.868	0.000	2.40	623.3	SURCHARGED
1.025	24	21	113.808	0.882	0.000	2.44	623.4	SURCHARGED
1.026	25	20	112.993	0.204	0.000	0.98	623.5	SURCHARGED
39.000	79	26	121.668	-0.505	0.000	0.01	3.7	OK
39.001	80	26	121.286	-0.473	0.000	0.02	10.1	OK
39.002	81	26	120.721	-0.606	0.000	0.02	12.6	OK
40.000	130	24	121.029	-0.172	0.000	0.13	4.2	OK
41.000	BAR1	26	121.701	-0.104	0.000	0.20	5.8	OK
41.001	131	26	120.881	-0.293	0.000	0.11	10.4	OK
39.003	81A	25	120.553	-0.581	0.000	0.05	29.1	OK
42.000	133	24	120.685	-0.261	0.000	0.04	2.3	OK
39.004	82	25	120.284	-0.621	0.000	0.07	36.8	OK
39.005	83	25	120.201	-0.634	0.000	0.06	36.8	OK
43.000	BAR2	26	121.529	-0.100	0.000	0.24	7.6	OK
43.001	136	26	120.419	-0.273	0.000	0.17	12.2	OK
39.006	83A	25	120.068	-0.602	0.000	0.09	52.6	OK
44.000	206	25	120.509	-0.348	0.000	0.07	7.9	OK
44.001	207	25	120.489	-0.330	0.000	0.09	10.0	OK
44.002	208	25	120.472	-0.304	0.000	0.12	17.0	OK
44.003	209	25	120.445	-0.260	0.000	0.18	17.0	OK
45.000	210	26	120.908	-0.177	0.000	0.10	4.6	OK
45.001	211	26	120.712	-0.230	0.000	0.13	8.3	OK
45.002	212	25	120.469	-0.287	0.000	0.12	12.5	OK
44.004	213	25	120.437	-0.245	0.000	0.37	38.5	OK
44.005	214	25	120.400	-0.246	0.000	0.30	40.3	OK
44.006	215	25	120.356	-0.225	0.000	0.50	47.1	OK
44.007	138	25	120.296	-0.261	0.000	0.37	47.0	OK
39.007	84	25	119.942	-0.583	0.000	0.18	108.9	OK
46.000	BAR4	26	121.565	-0.144	0.000	0.28	10.6	OK
46.001	BAR5	26	121.364	-0.124	0.000	0.42	15.0	OK
47.000	BAR6	26	122.052	-0.099	0.000	0.25	4.3	OK
47.001	BAR7	26	121.725	-0.146	0.000	0.27	9.8	OK
47.002	BAR8	26	121.575	-0.152	0.000	0.23	13.7	OK
46.002	BAR9	25	121.232	-0.147	0.000	0.52	31.9	OK
46.003	BAR10	25	121.102	-0.199	0.000	0.25	40.3	OK
46.004	140	25	120.224	-0.271	0.000	0.34	40.3	OK
39.008	85	25	119.889	-0.579	0.000	0.19	149.1	OK
39.009	86	25	119.754	-0.580	0.000	0.19	155.2	OK
48.000	BAR3	26	120.837	-0.111	0.000	0.15	5.1	OK
48.001	143	26	119.816	-0.358	0.000	0.09	10.6	OK
49.000	216	26	120.431	-0.239	0.000	0.09	15.9	OK
49.001	144	26	119.850	-0.345	0.000	0.13	16.9	OK
39.010	87	25	119.518	-0.634	0.000	0.19	182.4	OK
39.011	88	25	119.394	-0.613	0.000	0.22	213.2	OK
39.012	103	25	119.250	-0.601	0.000	0.24	230.5	OK
50.000	BAR11	26	121.351	-0.094	0.000	0.30	5.2	OK
50.001	BAR12	26	120.988	-0.150	0.000	0.25	12.6	OK
51.000	BAR13	26	120.792	-0.176	0.000	0.07	2.1	OK
50.002	BAR14	26	120.782	-0.137	0.000	0.33	17.6	OK

M-EC		Page 204
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	26	120.856	-0.095	0.000	0.29		4.9	OK
52.001	BAR16	26	120.569	-0.157	0.000	0.20		8.8	OK
50.003	BAR17	26	120.461	-0.157	0.000	0.46		28.4	OK
50.004	BAR18	25	120.391	-0.150	0.000	0.50		31.6	OK
50.005	BAR19	25	120.240	-0.209	0.000	0.20		35.6	OK
50.006	149	25	119.414	-0.311	0.000	0.21		35.6	OK
53.000	TWD1	26	120.435	-0.179	0.000	0.09		3.6	OK
54.000	TWD3	26	120.681	-0.201	0.000	0.03		2.2	OK
53.001	TWD2	26	120.073	-0.173	0.000	0.12		11.1	OK
39.013	104	24	119.091	-0.579	0.000	0.41		275.5	OK
39.014	104A	23	118.954	-0.681	0.000	0.24		275.2	OK
55.000	BAR20	26	121.407	-0.086	0.000	0.39		6.7	OK
55.001	BAR21	26	120.901	-0.152	0.000	0.23		12.6	OK
56.000	BAR22	26	120.464	-0.141	0.000	0.30		10.9	OK
56.001	BAR23	26	120.347	-0.122	0.000	0.43		14.1	OK
55.002	BAR24	26	120.234	-0.180	0.000	0.34		27.6	OK
55.003	BAR25	26	119.960	-0.234	0.000	0.31		32.6	OK
55.004	BAR26	26	119.828	-0.288	0.000	0.12		38.9	OK
39.015	105	22	118.784	-0.690	0.000	0.23		311.2	OK
39.016	106	22	118.620	-1.527	0.000	0.04		315.1	OK
39.017	107	20	115.952	-0.595	0.000	0.17		315.4	OK
1.027	26	20	112.317	-0.591	0.000	0.25		937.8	OK
1.028	27	20	109.485	-0.262	0.000	0.45		935.9	FLOOD RISK*
1.029	28	20	106.545	-0.646	0.000	0.20		934.6	OK
1.030	29	20	97.606	-0.871	0.000	0.16		936.9	OK
1.031	30	20	93.060	-0.322	0.000	0.45		936.0	OK
1.032	31	20	91.989	-0.261	0.000	0.59		929.3	FLOOD RISK*
1.033	32	17	91.605	-0.518	0.000	0.30		930.5	OK
1.034	33	8	91.598	1.325	0.000	1.15		281.7	SURCHARGED*
57.000	108	20	91.479	-0.407	0.000	0.25		410.5	OK
57.001	109	13	91.479	-0.407	0.000	0.21		399.5	OK
57.002	110	7	91.479	-0.407	0.000	0.15		380.4	OK
1.035	109	7	91.479	1.613	0.000	0.24		59.1	SURCHARGED*
1.036	34	47	86.650	0.000	0.000	0.74		61.8	SURCHARGED*

M-EC		Page 205
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 100 year Summer I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	34	116.602	-0.253	0.000	0.06	4.8	OK
1.001	2	34	116.461	-0.248	0.000	0.07	6.2	OK
1.002	3	34	116.167	-0.321	0.000	0.05	6.2	OK
1.003	4	32	116.062	-0.285	0.000	0.10	18.1	OK
2.000	5	34	118.420	-0.255	0.000	0.05	6.2	OK
2.001	6	34	118.232	-0.229	0.000	0.13	13.2	OK
2.002	6	34	117.979	-0.234	0.000	0.11	15.1	OK
2.003	8	34	117.104	-0.244	0.000	0.08	19.0	OK
3.000	9.1	34	118.261	-0.164	0.000	0.16	8.6	OK
3.001	9	34	116.910	-0.235	0.000	0.11	8.6	OK
3.002	10	33	116.691	-0.292	0.000	0.11	11.5	OK
3.003	11	25	116.647	-0.235	0.000	0.13	22.0	OK
4.000	12	34	117.100	-0.186	0.000	0.07	7.2	OK
3.004	13	25	116.633	-0.127	0.000	0.09	29.2	OK
3.005	14	25	116.597	0.044	0.000	0.16	39.2	SURCHARGED
3.006	15	25	116.584	0.119	0.000	0.18	40.1	SURCHARGED
2.004	16	25	116.582	0.139	0.000	0.17	58.4	SURCHARGED
2.005	17	26	116.457	0.104	0.000	0.16	66.4	SURCHARGED
5.000	18	34	116.689	-0.198	0.000	0.03	4.0	OK
2.006	19	26	116.310	0.131	0.000	0.18	72.9	SURCHARGED
2.007	20	26	116.166	0.159	0.000	0.19	77.7	SURCHARGED
1.004	21	26	116.024	0.176	0.000	0.28	98.0	SURCHARGED

M-EC		Page 206
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	26	115.971	0.184	0.000	0.18		109.1	SURCHARGED
6.000	23	34	116.758	-0.172	0.000	0.13		5.8	OK
6.001	24	34	116.527	-0.166	0.000	0.16		5.8	OK
6.002	25	34	116.395	-0.230	0.000	0.13		9.4	OK
6.003	26	34	116.108	-0.207	0.000	0.21		12.9	OK
6.004	27	31	116.007	-0.249	0.000	0.15		18.6	OK
6.005	28	26	115.983	0.000	0.000	0.08		18.2	OK
1.006	29	26	115.960	0.330	0.000	0.16		129.6	SURCHARGED
7.000	30	34	118.082	-0.178	0.000	0.10		3.8	OK
7.001	31	34	117.910	-0.185	0.000	0.07		8.6	OK
1.007	8	26	115.771	0.430	0.000	0.19		139.0	SURCHARGED
8.000	60	34	116.669	-0.187	0.000	0.07		2.6	OK
8.001	61	34	116.417	-0.267	0.000	0.03		3.0	OK
8.002	35	34	116.152	-0.276	0.000	0.02		4.3	OK
1.008	10	26	115.603	0.524	0.000	0.44		144.9	SURCHARGED
9.000	62	34	119.067	-0.233	0.000	0.11		9.4	OK
10.000	40	34	118.809	-0.159	0.000	0.45		27.7	OK
9.001	63	34	118.729	-0.250	0.000	0.24		40.8	OK
9.002	64	34	118.226	-0.292	0.000	0.11		51.7	OK
9.003	148	26	115.752	0.486	0.000	0.20		51.9	SURCHARGED
1.009	11	26	115.596	0.536	0.000	0.24		179.3	SURCHARGED
1.010	12	26	115.582	0.606	0.000	0.49		184.3	SURCHARGED
1.011	13	26	115.572	0.618	0.000	0.43		188.1	SURCHARGED
1.012	14	26	115.560	0.639	0.000	0.20		192.3	SURCHARGED
1.013	15	26	115.551	0.681	0.000	0.43		195.3	SURCHARGED
1.014	16	26	115.543	0.696	0.000	0.22		199.1	SURCHARGED
11.000	TWC16	34	117.667	-0.174	0.000	0.12		11.7	OK
11.001	TWC17	26	115.545	-0.115	0.000	0.09		11.6	OK
1.015	17	26	115.534	0.664	0.000	0.14		206.9	SURCHARGED
1.016	18	26	115.525	0.758	0.000	0.16		208.2	SURCHARGED
12.000	TWC1	34	117.624	-0.177	0.000	0.10		3.9	OK
12.001	TWC2	34	117.468	-0.168	0.000	0.15		5.6	OK
12.002	TWC3	34	117.233	-0.137	0.000	0.32		11.1	OK
12.003	TWC4	34	117.162	-0.135	0.000	0.34		11.1	OK
13.000	TWC5	34	118.128	-0.162	0.000	0.18		6.7	OK
13.001	TWC6	34	117.931	-0.137	0.000	0.32		12.0	OK
13.002	TWC7	34	117.743	-0.155	0.000	0.21		15.2	OK
12.004	TWC8	34	117.014	-0.228	0.000	0.30		29.3	OK
12.005	TWC9	34	116.949	-0.219	0.000	0.36		32.1	OK
12.006	TWC10	34	116.860	-0.260	0.000	0.21		33.2	OK
1.017	TWC11	26	115.516	0.849	0.000	0.16		227.7	SURCHARGED
1.018	19	26	115.507	0.914	0.000	0.11		228.9	SURCHARGED
14.000	TWC12	34	117.221	-0.188	0.000	0.06		2.3	OK
14.001	TWC13	34	117.054	-0.198	0.000	0.03		4.4	OK
14.002	TWC14	34	116.104	-0.175	0.000	0.11		8.8	OK
1.019	TWC15	26	115.499	1.171	0.000	0.19		234.5	SURCHARGED
15.000	65	34	117.143	-0.226	0.000	0.14		9.5	OK
16.000	136	34	118.021	-0.193	0.000	0.05		3.0	OK
16.001	137	34	117.716	-0.191	0.000	0.06		3.2	OK

M-EC		Page 207
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 100 year Summer I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	34	117.460	-0.259	0.000	0.05		5.8	OK
15.001	66	34	116.915	-0.271	0.000	0.17		20.4	OK
15.002	67	34	116.783	-0.261	0.000	0.20		23.0	OK
17.000	9	34	117.298	-0.286	0.000	0.01		0.8	OK
17.001	75	34	117.149	-0.248	0.000	0.07		5.4	OK
17.002	76	34	116.751	-0.469	0.000	0.03		10.3	OK
15.003	68	34	116.557	-0.388	0.000	0.16		37.5	OK
15.004	69	34	116.379	-0.438	0.000	0.14		45.3	OK
15.005	70	34	116.310	-0.418	0.000	0.16		45.3	OK
15.006	71	34	116.275	-0.399	0.000	0.17		52.7	OK
18.000	147	34	116.778	-0.193	0.000	0.05		1.9	OK
18.001	112	34	116.605	-0.242	0.000	0.08		4.4	OK
18.002	113	34	116.429	-0.374	0.000	0.05		5.7	OK
19.000	115	34	117.293	-0.201	0.000	0.03		1.2	OK
19.001	116	34	117.036	-0.194	0.000	0.05		3.5	OK
18.003	77	34	116.388	-0.362	0.000	0.08		10.4	OK
20.000	134	34	117.239	-0.193	0.000	0.05		4.1	OK
18.004	135	34	116.316	-0.384	0.000	0.11		18.0	OK
18.005	78	34	116.270	-0.375	0.000	0.12		20.6	OK
15.007	72	34	116.241	-0.357	0.000	0.27		76.6	OK
15.008	73	34	116.154	-0.300	0.000	0.38		80.7	OK
15.009	74	34	116.110	-0.301	0.000	0.50		80.6	OK
15.010	98	34	116.017	-0.368	0.000	0.30		80.6	OK
15.011	99	34	115.900	-0.383	0.000	0.28		80.4	OK
15.012	101	34	115.720	-0.379	0.000	0.29		80.2	OK
21.000	142	34	117.112	-0.177	0.000	0.10		4.8	OK
21.001	143	34	116.694	-0.173	0.000	0.12		7.2	OK
22.000	118	34	117.092	-0.214	0.000	0.01		0.3	OK
22.001	119	34	117.034	-0.186	0.000	0.07		2.2	OK
22.002	120	34	116.985	-0.176	0.000	0.11		6.6	OK
23.000	129	34	116.618	-0.259	0.000	0.05		3.8	OK
23.001	130	34	116.483	-0.259	0.000	0.05		4.6	OK
22.003	121	34	116.290	-0.204	0.000	0.23		14.8	OK
24.000	131	34	116.912	-0.166	0.000	0.15		6.5	OK
24.001	132	34	116.643	-0.139	0.000	0.31		8.5	OK
24.002	133	34	116.496	-0.245	0.000	0.08		10.0	OK
22.004	122	34	116.091	-0.333	0.000	0.15		26.5	OK
22.005	123	34	116.026	-0.303	0.000	0.20		30.3	OK
25.000	139	34	116.722	-0.164	0.000	0.16		4.5	OK
25.001	140	34	116.610	-0.164	0.000	0.16		10.0	OK
22.006	124	34	115.974	-0.288	0.000	0.28		42.3	OK
22.007	125	34	115.763	-0.443	0.000	0.16		42.3	OK
22.008	126	33	115.593	-0.566	0.000	0.08		45.2	OK
22.009	127	32	115.567	-0.496	0.000	0.18		45.1	OK
21.002	149	26	115.536	-0.479	0.000	0.07		51.6	OK
1.020	20	26	115.489	1.935	0.000	5.00		331.6	SURCHARGED
1.021	108	26	114.774	1.229	0.000	1.33		332.2	SURCHARGED
1.022	21	26	114.544	1.135	0.000	1.31		332.7	SURCHARGED
1.023	22	26	114.237	1.016	0.000	1.36		333.0	SURCHARGED

M-EC		Page 208
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 100 year Summer I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	34	119.302	-0.636	0.000	0.01		8.8	OK
26.001	90	34	118.976	-0.631	0.000	0.01		10.4	OK
27.000	200	34	119.551	-0.265	0.000	0.03		5.0	OK
27.001	109	34	118.821	-0.458	0.000	0.04		5.6	OK
26.002	91	34	118.581	-0.667	0.000	0.03		16.1	OK
28.000	TWD27	34	119.373	-0.244	0.000	0.08		10.2	OK
26.003	91A	34	118.439	-0.723	0.000	0.04		28.2	OK
26.004	92	34	118.356	-0.708	0.000	0.05		32.2	OK
26.005	93	34	118.286	-0.717	0.000	0.04		32.2	OK
29.000	TWD29	34	119.394	-0.171	0.000	0.13		4.7	OK
29.001	TWD30	34	119.227	-0.231	0.000	0.12		7.7	OK
29.002	TWD31	34	119.095	-0.253	0.000	0.06		10.4	OK
26.006	94	34	118.166	-0.700	0.000	0.06		42.9	OK
26.007	95	34	118.057	-0.698	0.000	0.06		44.2	OK
30.000	201	34	119.198	-0.243	0.000	0.08		6.8	OK
30.001	202	34	118.960	-0.230	0.000	0.12		9.3	OK
30.002	203	34	118.894	-0.207	0.000	0.21		16.1	OK
30.003	204	34	118.684	-0.299	0.000	0.09		18.9	OK
30.004	117	34	118.407	-0.264	0.000	0.19		20.1	OK
26.008	95A	34	117.947	-0.664	0.000	0.09		68.0	OK
26.009	96	34	117.753	-0.680	0.000	0.07		68.0	OK
26.010	97	34	117.345	-0.693	0.000	0.06		68.0	OK
31.000	121	34	116.984	-0.636	0.000	0.12		43.6	OK
32.000	TWD4	34	120.070	-0.191	0.000	0.06		2.7	OK
32.001	TWD5	34	119.871	-0.178	0.000	0.10		6.0	OK
33.000	TWD16	34	119.489	-0.222	0.000	0.15		9.9	OK
32.002	TWD6	34	119.313	-0.275	0.000	0.16		17.2	OK
34.000	TWD17	34	119.521	-0.186	0.000	0.07		3.7	OK
35.000	TWD18	34	119.450	-0.188	0.000	0.06		2.6	OK
32.003	TWD7	34	119.162	-0.278	0.000	0.15		25.2	OK
32.004	TWD8	34	118.649	-0.334	0.000	0.15		31.1	OK
32.005	TWD9	34	118.536	-0.315	0.000	0.20		33.2	OK
32.006	TWD10	34	118.486	-0.315	0.000	0.20		33.5	OK
36.000	TWD19	34	119.553	-0.168	0.000	0.14		9.9	OK
32.007	TWD11	34	117.343	-0.378	0.000	0.30		44.7	OK
37.000	TWD20	34	119.308	-0.178	0.000	0.10		3.8	OK
37.001	TWD21	34	119.037	-0.234	0.000	0.11		7.5	OK
37.002	TWD22	34	118.845	-0.221	0.000	0.16		10.7	OK
37.003	TWD23	34	118.575	-0.285	0.000	0.13		14.0	OK
37.004	TWD24	34	118.480	-0.306	0.000	0.08		16.3	OK
37.005	TWD25	34	117.994	-0.304	0.000	0.08		18.5	OK
32.008	TWD12	34	117.232	-0.468	0.000	0.19		66.9	OK
38.000	TWD26	34	119.257	-0.193	0.000	0.05		4.9	OK
32.009	TWD13	34	117.109	-0.506	0.000	0.17		73.9	OK
32.010	TWD14	34	117.049	-0.498	0.000	0.19		76.7	OK
32.011	TWD15	34	117.001	-0.494	0.000	0.26		80.2	OK
26.011	98	34	116.747	-0.841	0.000	0.09		191.7	OK
26.012	99	34	116.206	-0.814	0.000	0.12		191.7	OK
26.013	100	34	116.030	-0.699	0.000	0.25		191.7	OK



M-EC		Page 209
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	26	114.085	0.953	0.000	1.95		505.1	SURCHARGED
1.025	24	26	113.295	0.369	0.000	1.98		505.0	SURCHARGED
1.026	25	26	112.668	-0.121	0.000	0.79		504.8	OK
39.000	79	34	121.659	-0.514	0.000	0.00		2.1	OK
39.001	80	34	121.264	-0.495	0.000	0.01		5.8	OK
39.002	81	34	120.693	-0.634	0.000	0.01		7.2	OK
40.000	130	34	121.016	-0.185	0.000	0.07		2.4	OK
41.000	BAR1	34	121.689	-0.116	0.000	0.12		3.3	OK
41.001	131	34	120.860	-0.314	0.000	0.06		6.0	OK
39.003	81A	34	120.533	-0.601	0.000	0.03		16.7	OK
42.000	133	34	120.677	-0.269	0.000	0.02		1.3	OK
39.004	82	34	120.251	-0.654	0.000	0.04		21.2	OK
39.005	83	34	120.174	-0.661	0.000	0.03		21.2	OK
43.000	BAR2	34	121.516	-0.113	0.000	0.14		4.3	OK
43.001	136	34	120.394	-0.298	0.000	0.10		7.0	OK
39.006	83A	34	120.027	-0.643	0.000	0.05		30.3	OK
44.000	206	34	120.478	-0.379	0.000	0.04		4.5	OK
44.001	207	34	120.451	-0.368	0.000	0.05		5.7	OK
44.002	208	34	120.427	-0.349	0.000	0.07		9.8	OK
44.003	209	34	120.390	-0.314	0.000	0.11		9.8	OK
45.000	210	34	120.895	-0.190	0.000	0.06		2.6	OK
45.001	211	34	120.695	-0.247	0.000	0.07		4.8	OK
45.002	212	34	120.444	-0.312	0.000	0.07		7.2	OK
44.004	213	34	120.381	-0.301	0.000	0.21		22.2	OK
44.005	214	34	120.343	-0.303	0.000	0.17		23.3	OK
44.006	215	34	120.295	-0.286	0.000	0.29		27.2	OK
44.007	138	34	120.247	-0.310	0.000	0.21		27.2	OK
39.007	84	34	119.880	-0.645	0.000	0.11		62.9	OK
46.000	BAR4	34	121.544	-0.165	0.000	0.16		6.1	OK
46.001	BAR5	34	121.338	-0.150	0.000	0.24		8.6	OK
47.000	BAR6	34	122.039	-0.112	0.000	0.15		2.5	OK
47.001	BAR7	34	121.705	-0.166	0.000	0.15		5.6	OK
47.002	BAR8	34	121.557	-0.170	0.000	0.13		7.9	OK
46.002	BAR9	34	121.190	-0.189	0.000	0.30		18.3	OK
46.003	BAR10	34	121.076	-0.225	0.000	0.14		23.2	OK
46.004	140	34	120.178	-0.317	0.000	0.19		23.2	OK
39.008	85	34	119.826	-0.642	0.000	0.11		86.0	OK
39.009	86	34	119.692	-0.642	0.000	0.11		89.6	OK
48.000	BAR3	34	120.828	-0.120	0.000	0.09		2.9	OK
48.001	143	34	119.791	-0.383	0.000	0.05		6.1	OK
49.000	216	34	120.414	-0.256	0.000	0.05		9.1	OK
49.001	144	34	119.824	-0.371	0.000	0.07		9.7	OK
39.010	87	34	119.450	-0.702	0.000	0.11		105.4	OK
39.011	88	34	119.321	-0.686	0.000	0.13		123.4	OK
39.012	103	34	119.173	-0.678	0.000	0.14		133.6	OK
50.000	BAR11	34	121.337	-0.108	0.000	0.17		3.0	OK
50.001	BAR12	34	120.969	-0.169	0.000	0.14		7.3	OK
51.000	BAR13	34	120.775	-0.193	0.000	0.04		1.2	OK
50.002	BAR14	34	120.760	-0.159	0.000	0.19		10.1	OK

M-EC		Page 210
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 960 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	34	120.842	-0.109	0.000	0.17		2.8	OK
52.001	BAR16	34	120.552	-0.174	0.000	0.12		5.1	OK
50.003	BAR17	34	120.423	-0.195	0.000	0.27		16.3	OK
50.004	BAR18	34	120.350	-0.191	0.000	0.29		18.2	OK
50.005	BAR19	34	120.217	-0.232	0.000	0.12		20.4	OK
50.006	149	34	119.378	-0.347	0.000	0.12		20.4	OK
53.000	TWD1	34	120.422	-0.192	0.000	0.05		2.1	OK
54.000	TWD3	34	120.673	-0.209	0.000	0.02		1.3	OK
53.001	TWD2	34	120.060	-0.186	0.000	0.07		6.4	OK
39.013	104	34	118.967	-0.703	0.000	0.24		160.4	OK
39.014	104A	34	118.858	-0.777	0.000	0.14		161.4	OK
55.000	BAR20	34	121.391	-0.102	0.000	0.22		3.9	OK
55.001	BAR21	34	120.882	-0.171	0.000	0.13		7.2	OK
56.000	BAR22	34	120.442	-0.163	0.000	0.17		6.3	OK
56.001	BAR23	34	120.319	-0.150	0.000	0.25		8.1	OK
55.002	BAR24	34	120.203	-0.211	0.000	0.19		15.9	OK
55.003	BAR25	34	119.924	-0.270	0.000	0.18		18.7	OK
55.004	BAR26	34	119.806	-0.310	0.000	0.07		22.4	OK
39.015	105	34	118.686	-0.788	0.000	0.14		183.7	OK
39.016	106	34	118.507	-1.640	0.000	0.02		183.4	OK
39.017	107	34	115.850	-0.697	0.000	0.10		182.8	OK
1.027	26	28	112.222	-0.686	0.000	0.18		683.8	OK
1.028	27	27	109.401	-0.346	0.000	0.33		684.6	OK
1.029	28	27	106.462	-0.729	0.000	0.15		684.9	OK
1.030	29	27	97.511	-0.966	0.000	0.11		684.0	OK
1.031	30	26	92.960	-0.422	0.000	0.33		679.7	OK
1.032	31	28	91.856	-0.394	0.000	0.43		676.1	OK
1.033	32	12	91.654	-0.469	0.000	0.22		679.4	OK
1.034	33	6	91.646	1.373	0.000	1.01		246.1	SURCHARGED*
57.000	108	15	91.552	-0.334	0.000	0.15		237.4	OK
57.001	109	11	91.545	-0.341	0.000	0.12		227.4	OK
57.002	110	5	91.540	-0.346	0.000	0.08		197.6	OK
1.035	109	5	91.536	1.670	0.000	0.25		60.7	SURCHARGED*
1.036	34	46	86.650	0.000	0.000	0.75		62.1	SURCHARGED*

M-EC		Page 211
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 100 year Summer I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details


Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850  
Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	40	116.595	-0.260	0.000	0.04	3.4	OK
1.001	2	40	116.452	-0.257	0.000	0.05	4.5	OK
1.002	3	40	116.159	-0.329	0.000	0.04	4.5	OK
1.003	4	40	116.039	-0.308	0.000	0.07	13.1	OK
2.000	5	40	118.413	-0.262	0.000	0.04	4.5	OK
2.001	6	40	118.222	-0.239	0.000	0.09	9.5	OK
2.002	6	40	117.969	-0.244	0.000	0.08	10.9	OK
2.003	8	40	117.094	-0.254	0.000	0.06	13.7	OK
3.000	9.1	40	118.251	-0.174	0.000	0.12	6.2	OK
3.001	9	40	116.900	-0.245	0.000	0.08	6.2	OK
3.002	10	40	116.677	-0.306	0.000	0.08	8.3	OK
3.003	11	40	116.523	-0.359	0.000	0.09	15.9	OK
4.000	12	40	117.093	-0.193	0.000	0.05	5.2	OK
3.004	13	40	116.323	-0.437	0.000	0.07	21.1	OK
3.005	14	40	116.147	-0.406	0.000	0.12	28.8	OK
3.006	15	40	116.009	-0.456	0.000	0.13	29.5	OK
2.004	16	40	115.983	-0.460	0.000	0.12	43.2	OK
2.005	17	40	115.889	-0.464	0.000	0.12	49.2	OK
5.000	18	40	116.686	-0.201	0.000	0.02	2.9	OK
2.006	19	40	115.722	-0.457	0.000	0.13	54.3	OK
2.007	20	40	115.557	-0.450	0.000	0.14	57.2	OK
1.004	21	40	115.430	-0.418	0.000	0.20	70.3	OK

M-EC		Page 212
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	40	115.215	-0.572	0.000	0.13		80.0	OK
6.000	23	40	116.751	-0.179	0.000	0.09		4.2	OK
6.001	24	40	116.518	-0.175	0.000	0.11		4.2	OK
6.002	25	40	116.386	-0.239	0.000	0.09		6.8	OK
6.003	26	40	116.092	-0.223	0.000	0.15		9.3	OK
6.004	27	40	115.962	-0.294	0.000	0.11		13.4	OK
6.005	28	40	115.666	-0.317	0.000	0.06		13.4	OK
1.006	29	40	115.052	-0.578	0.000	0.12		100.3	OK
7.000	30	40	118.074	-0.186	0.000	0.07		2.8	OK
7.001	31	40	117.903	-0.192	0.000	0.05		6.2	OK
1.007	8	37	114.834	-0.507	0.000	0.14		107.5	OK
8.000	60	40	116.663	-0.193	0.000	0.05		1.9	OK
8.001	61	40	116.413	-0.271	0.000	0.02		2.1	OK
8.002	35	40	116.146	-0.282	0.000	0.01		3.1	OK
1.008	10	37	114.792	-0.287	0.000	0.33		108.1	OK
9.000	62	40	119.057	-0.243	0.000	0.08		6.8	OK
10.000	40	40	118.785	-0.183	0.000	0.33		20.0	OK
9.001	63	40	118.709	-0.270	0.000	0.18		29.4	OK
9.002	64	40	118.214	-0.304	0.000	0.08		37.3	OK
9.003	148	40	114.931	-0.335	0.000	0.15		38.3	OK
1.009	11	36	114.786	-0.274	0.000	0.20		147.5	OK
1.010	12	36	114.744	-0.232	0.000	0.39		147.0	OK
1.011	13	36	114.736	-0.218	0.000	0.34		146.7	OK
1.012	14	35	114.719	-0.202	0.000	0.15		145.6	OK
1.013	15	35	114.689	-0.181	0.000	0.31		143.2	OK
1.014	16	35	114.682	-0.165	0.000	0.15		140.0	OK
11.000	TWC16	40	117.660	-0.181	0.000	0.09		8.4	OK
11.001	TWC17	40	115.473	-0.187	0.000	0.07		8.4	OK
1.015	17	36	114.643	-0.227	0.000	0.10		143.0	OK
1.016	18	36	114.573	-0.194	0.000	0.11		146.0	OK
12.000	TWC1	40	117.617	-0.184	0.000	0.08		2.8	OK
12.001	TWC2	40	117.459	-0.177	0.000	0.11		4.0	OK
12.002	TWC3	40	117.218	-0.152	0.000	0.23		8.0	OK
12.003	TWC4	40	117.147	-0.150	0.000	0.24		8.0	OK
13.000	TWC5	40	118.118	-0.172	0.000	0.13		4.8	OK
13.001	TWC6	40	117.916	-0.152	0.000	0.23		8.7	OK
13.002	TWC7	40	117.732	-0.166	0.000	0.15		11.0	OK
12.004	TWC8	40	116.990	-0.252	0.000	0.22		21.1	OK
12.005	TWC9	40	116.923	-0.245	0.000	0.26		23.2	OK
12.006	TWC10	40	116.841	-0.279	0.000	0.15		24.0	OK
1.017	TWC11	36	114.503	-0.164	0.000	0.11		166.8	OK
1.018	19	36	114.438	-0.155	0.000	0.08		171.0	OK
14.000	TWC12	40	117.215	-0.194	0.000	0.05		1.7	OK
14.001	TWC13	40	117.051	-0.201	0.000	0.03		3.2	OK
14.002	TWC14	40	116.096	-0.183	0.000	0.08		6.3	OK
1.019	TWC15	36	114.368	0.040	0.000	0.14		176.5	SURCHARGED
15.000	65	40	117.132	-0.237	0.000	0.10		6.8	OK
16.000	136	40	118.017	-0.197	0.000	0.04		2.2	OK
16.001	137	40	117.711	-0.196	0.000	0.04		2.3	OK

M-EC		Page 213
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	40	117.454	-0.265	0.000	0.03		4.2	OK
15.001	66	40	116.898	-0.288	0.000	0.12		14.7	OK
15.002	67	40	116.764	-0.280	0.000	0.15		16.6	OK
17.000	9	40	117.294	-0.290	0.000	0.01		0.6	OK
17.001	75	40	117.140	-0.257	0.000	0.05		3.9	OK
17.002	76	40	116.741	-0.479	0.000	0.02		7.4	OK
15.003	68	40	116.536	-0.409	0.000	0.11		27.1	OK
15.004	69	40	116.351	-0.466	0.000	0.10		32.7	OK
15.005	70	40	116.276	-0.452	0.000	0.12		32.7	OK
15.006	71	40	116.236	-0.438	0.000	0.12		38.1	OK
18.000	147	40	116.773	-0.198	0.000	0.04		1.4	OK
18.001	112	40	116.594	-0.253	0.000	0.06		3.2	OK
18.002	113	40	116.415	-0.388	0.000	0.03		4.1	OK
19.000	115	40	117.289	-0.205	0.000	0.02		0.9	OK
19.001	116	40	117.031	-0.199	0.000	0.03		2.6	OK
18.003	77	40	116.371	-0.379	0.000	0.06		7.5	OK
20.000	134	40	117.234	-0.198	0.000	0.03		3.0	OK
18.004	135	40	116.290	-0.410	0.000	0.08		13.0	OK
18.005	78	40	116.237	-0.408	0.000	0.09		14.9	OK
15.007	72	40	116.196	-0.402	0.000	0.19		55.3	OK
15.008	73	40	116.102	-0.352	0.000	0.27		58.3	OK
15.009	74	40	116.059	-0.352	0.000	0.36		58.3	OK
15.010	98	40	115.981	-0.404	0.000	0.22		58.3	OK
15.011	99	40	115.867	-0.416	0.000	0.21		58.2	OK
15.012	101	40	115.685	-0.414	0.000	0.21		58.2	OK
21.000	142	40	117.104	-0.185	0.000	0.07		3.4	OK
21.001	143	40	116.687	-0.180	0.000	0.09		5.2	OK
22.000	118	40	117.089	-0.217	0.000	0.01		0.2	OK
22.001	119	40	117.027	-0.193	0.000	0.05		1.6	OK
22.002	120	40	116.977	-0.184	0.000	0.08		4.8	OK
23.000	129	40	116.612	-0.265	0.000	0.03		2.7	OK
23.001	130	40	116.477	-0.265	0.000	0.03		3.3	OK
22.003	121	40	116.275	-0.219	0.000	0.16		10.7	OK
24.000	131	40	116.903	-0.175	0.000	0.11		4.7	OK
24.001	132	40	116.630	-0.153	0.000	0.23		6.1	OK
24.002	133	40	116.486	-0.254	0.000	0.06		7.2	OK
22.004	122	40	116.072	-0.353	0.000	0.11		19.1	OK
22.005	123	40	116.001	-0.327	0.000	0.14		21.9	OK
25.000	139	40	116.712	-0.174	0.000	0.12		3.2	OK
25.001	140	40	116.600	-0.174	0.000	0.12		7.2	OK
22.006	124	40	115.949	-0.313	0.000	0.20		30.5	OK
22.007	125	40	115.739	-0.467	0.000	0.11		30.5	OK
22.008	126	40	115.549	-0.611	0.000	0.06		32.6	OK
22.009	127	40	115.493	-0.570	0.000	0.13		32.6	OK
21.002	149	40	115.369	-0.646	0.000	0.05		37.7	OK
1.020	20	36	114.360	0.806	0.000	3.84		254.4	SURCHARGED
1.021	108	36	113.932	0.387	0.000	1.02		255.5	SURCHARGED
1.022	21	36	113.794	0.385	0.000	1.01		256.3	SURCHARGED
1.023	22	37	113.603	0.382	0.000	1.05		256.7	SURCHARGED

M-EC		Page 214
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	40	119.291	-0.647	0.000	0.01		6.3	OK
26.001	90	40	118.964	-0.643	0.000	0.01		7.5	OK
27.000	200	40	119.547	-0.269	0.000	0.02		3.6	OK
27.001	109	40	118.812	-0.467	0.000	0.03		4.1	OK
26.002	91	40	118.572	-0.676	0.000	0.02		11.6	OK
28.000	TWD27	40	119.363	-0.254	0.000	0.06		7.4	OK
26.003	91A	40	118.426	-0.736	0.000	0.03		20.4	OK
26.004	92	40	118.339	-0.725	0.000	0.04		23.2	OK
26.005	93	40	118.272	-0.731	0.000	0.03		23.2	OK
29.000	TWD29	40	119.386	-0.179	0.000	0.09		3.4	OK
29.001	TWD30	40	119.217	-0.241	0.000	0.09		5.6	OK
29.002	TWD31	40	119.088	-0.260	0.000	0.04		7.5	OK
26.006	94	40	118.147	-0.719	0.000	0.04		31.0	OK
26.007	95	40	118.037	-0.718	0.000	0.04		31.9	OK
30.000	201	40	119.188	-0.253	0.000	0.06		4.9	OK
30.001	202	40	118.950	-0.240	0.000	0.09		6.7	OK
30.002	203	40	118.879	-0.222	0.000	0.15		11.6	OK
30.003	204	40	118.670	-0.313	0.000	0.07		13.6	OK
30.004	117	40	118.389	-0.282	0.000	0.14		14.5	OK
26.008	95A	40	117.918	-0.693	0.000	0.06		49.1	OK
26.009	96	40	117.728	-0.705	0.000	0.05		49.1	OK
26.010	97	40	117.324	-0.714	0.000	0.04		49.1	OK
31.000	121	40	116.958	-0.662	0.000	0.09		31.4	OK
32.000	TWD4	40	120.065	-0.196	0.000	0.04		2.0	OK
32.001	TWD5	40	119.864	-0.185	0.000	0.07		4.3	OK
33.000	TWD16	40	119.477	-0.234	0.000	0.11		7.2	OK
32.002	TWD6	40	119.297	-0.291	0.000	0.12		12.4	OK
34.000	TWD17	40	119.515	-0.192	0.000	0.05		2.7	OK
35.000	TWD18	40	119.444	-0.194	0.000	0.05		1.9	OK
32.003	TWD7	40	119.147	-0.293	0.000	0.11		18.2	OK
32.004	TWD8	40	118.632	-0.351	0.000	0.11		22.4	OK
32.005	TWD9	40	118.513	-0.338	0.000	0.14		23.9	OK
32.006	TWD10	40	118.464	-0.337	0.000	0.14		24.2	OK
36.000	TWD19	40	119.544	-0.177	0.000	0.10		7.1	OK
32.007	TWD11	40	117.308	-0.413	0.000	0.21		32.3	OK
37.000	TWD20	40	119.300	-0.186	0.000	0.07		2.7	OK
37.001	TWD21	40	119.028	-0.243	0.000	0.08		5.4	OK
37.002	TWD22	40	118.833	-0.233	0.000	0.11		7.7	OK
37.003	TWD23	40	118.562	-0.298	0.000	0.09		10.1	OK
37.004	TWD24	40	118.468	-0.318	0.000	0.06		11.8	OK
37.005	TWD25	40	117.981	-0.317	0.000	0.06		13.3	OK
32.008	TWD12	40	117.196	-0.504	0.000	0.14		48.3	OK
38.000	TWD26	40	119.252	-0.198	0.000	0.04		3.5	OK
32.009	TWD13	40	117.070	-0.545	0.000	0.12		53.3	OK
32.010	TWD14	40	117.010	-0.537	0.000	0.13		55.3	OK
32.011	TWD15	40	116.961	-0.534	0.000	0.18		57.8	OK
26.011	98	40	116.709	-0.879	0.000	0.06		138.3	OK
26.012	99	40	116.172	-0.848	0.000	0.08		138.3	OK
26.013	100	40	115.975	-0.754	0.000	0.18		138.3	OK

M-EC		Page 215
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 1440 minute 100 year Summer I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	38	113.504	0.372	0.000	1.46	379.4	SURCHARGED
1.025	24	38	113.068	0.142	0.000	1.48	379.2	SURCHARGED
1.026	25	38	112.622	-0.167	0.000	0.60	379.1	OK
39.000	79	40	121.656	-0.517	0.000	0.00	1.5	OK
39.001	80	40	121.256	-0.503	0.000	0.01	4.2	OK
39.002	81	40	120.682	-0.645	0.000	0.01	5.2	OK
40.000	130	40	121.009	-0.192	0.000	0.05	1.8	OK
41.000	BAR1	40	121.684	-0.121	0.000	0.08	2.4	OK
41.001	131	40	120.850	-0.324	0.000	0.05	4.3	OK
39.003	81A	40	120.522	-0.612	0.000	0.02	12.1	OK
42.000	133	40	120.670	-0.276	0.000	0.02	1.0	OK
39.004	82	40	120.238	-0.667	0.000	0.03	15.3	OK
39.005	83	40	120.163	-0.672	0.000	0.02	15.3	OK
43.000	BAR2	40	121.511	-0.118	0.000	0.10	3.1	OK
43.001	136	40	120.381	-0.311	0.000	0.07	5.1	OK
39.006	83A	40	120.012	-0.658	0.000	0.04	21.9	OK
44.000	206	40	120.465	-0.392	0.000	0.03	3.3	OK
44.001	207	40	120.435	-0.384	0.000	0.04	4.1	OK
44.002	208	40	120.409	-0.367	0.000	0.05	7.1	OK
44.003	209	40	120.366	-0.338	0.000	0.08	7.1	OK
45.000	210	40	120.889	-0.196	0.000	0.04	1.9	OK
45.001	211	40	120.686	-0.256	0.000	0.05	3.4	OK
45.002	212	40	120.434	-0.322	0.000	0.05	5.2	OK
44.004	213	40	120.357	-0.325	0.000	0.15	16.0	OK
44.005	214	40	120.318	-0.327	0.000	0.13	16.8	OK
44.006	215	40	120.269	-0.312	0.000	0.21	19.6	OK
44.007	138	40	120.224	-0.333	0.000	0.15	19.6	OK
39.007	84	40	119.852	-0.673	0.000	0.08	45.4	OK
46.000	BAR4	40	121.535	-0.174	0.000	0.12	4.4	OK
46.001	BAR5	40	121.326	-0.162	0.000	0.17	6.2	OK
47.000	BAR6	40	122.033	-0.118	0.000	0.11	1.8	OK
47.001	BAR7	40	121.696	-0.175	0.000	0.11	4.1	OK
47.002	BAR8	40	121.549	-0.178	0.000	0.10	5.7	OK
46.002	BAR9	40	121.173	-0.206	0.000	0.21	13.2	OK
46.003	BAR10	40	121.065	-0.236	0.000	0.10	16.7	OK
46.004	140	40	120.156	-0.339	0.000	0.14	16.7	OK
39.008	85	40	119.798	-0.670	0.000	0.08	62.1	OK
39.009	86	40	119.664	-0.670	0.000	0.08	64.7	OK
48.000	BAR3	40	120.822	-0.126	0.000	0.06	2.1	OK
48.001	143	40	119.781	-0.393	0.000	0.04	4.4	OK
49.000	216	40	120.408	-0.262	0.000	0.04	6.6	OK
49.001	144	40	119.811	-0.384	0.000	0.05	7.0	OK
39.010	87	40	119.420	-0.732	0.000	0.08	76.1	OK
39.011	88	40	119.291	-0.716	0.000	0.09	89.0	OK
39.012	103	40	119.141	-0.710	0.000	0.10	96.4	OK
50.000	BAR11	40	121.330	-0.115	0.000	0.13	2.2	OK
50.001	BAR12	40	120.961	-0.177	0.000	0.10	5.2	OK
51.000	BAR13	40	120.769	-0.199	0.000	0.03	0.9	OK
50.002	BAR14	40	120.749	-0.170	0.000	0.14	7.3	OK

M-EC		Page 216
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 100 year Summer I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	40	120.836	-0.115	0.000	0.12		2.0	OK
52.001	BAR16	40	120.544	-0.182	0.000	0.08		3.7	OK
50.003	BAR17	40	120.407	-0.211	0.000	0.19		11.8	OK
50.004	BAR18	40	120.333	-0.208	0.000	0.21		13.1	OK
50.005	BAR19	40	120.207	-0.242	0.000	0.08		14.8	OK
50.006	149	40	119.364	-0.361	0.000	0.09		14.8	OK
53.000	TWD1	40	120.417	-0.197	0.000	0.04		1.5	OK
54.000	TWD3	40	120.669	-0.213	0.000	0.01		0.9	OK
53.001	TWD2	40	120.054	-0.192	0.000	0.05		4.6	OK
39.013	104	40	118.912	-0.758	0.000	0.17		115.8	OK
39.014	104A	40	118.817	-0.818	0.000	0.10		116.4	OK
55.000	BAR20	40	121.383	-0.110	0.000	0.16		2.8	OK
55.001	BAR21	40	120.875	-0.178	0.000	0.10		5.2	OK
56.000	BAR22	40	120.432	-0.173	0.000	0.12		4.5	OK
56.001	BAR23	40	120.308	-0.161	0.000	0.18		5.8	OK
55.002	BAR24	40	120.188	-0.226	0.000	0.14		11.4	OK
55.003	BAR25	40	119.907	-0.287	0.000	0.13		13.5	OK
55.004	BAR26	40	119.795	-0.321	0.000	0.05		16.1	OK
39.015	105	40	118.645	-0.829	0.000	0.10		132.6	OK
39.016	106	40	118.455	-1.692	0.000	0.02		132.5	OK
39.017	107	40	115.798	-0.749	0.000	0.07		132.5	OK
1.027	26	39	112.148	-0.760	0.000	0.13		505.4	OK
1.028	27	39	109.336	-0.411	0.000	0.24		506.0	OK
1.029	28	39	106.393	-0.798	0.000	0.11		507.0	OK
1.030	29	39	97.440	-1.037	0.000	0.08		507.7	OK
1.031	30	39	92.876	-0.506	0.000	0.25		508.1	OK
1.032	31	39	91.737	-0.513	0.000	0.32		507.2	OK
1.033	32	15	91.630	-0.493	0.000	0.16		505.6	OK
1.034	33	7	91.622	1.349	0.000	0.86		209.2	SURCHARGED*
57.000	108	19	91.503	-0.383	0.000	0.11		170.8	OK
57.001	109	12	91.498	-0.388	0.000	0.08		161.7	OK
57.002	110	6	91.494	-0.392	0.000	0.05		133.4	OK
1.035	109	6	91.489	1.623	0.000	0.28		67.9	SURCHARGED*
1.036	34	45	86.650	0.000	0.000	0.78		64.7	SURCHARGED*



M-EC		Page 217
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	23	116.640	-0.215	0.000	0.17	13.7	OK
1.001	2	25	116.500	-0.209	0.000	0.20	17.5	OK
1.002	3	25	116.206	-0.282	0.000	0.14	17.2	OK
1.003	4	25	116.101	-0.246	0.000	0.25	45.1	OK
2.000	5	16	118.455	-0.220	0.000	0.16	18.1	OK
2.001	6	18	118.283	-0.178	0.000	0.34	35.3	OK
2.002	6	18	118.025	-0.188	0.000	0.30	40.2	OK
2.003	8	23	117.140	-0.208	0.000	0.21	49.5	OK
3.000	9.1	17	118.311	-0.114	0.000	0.46	23.9	OK
3.001	9	25	116.956	-0.189	0.000	0.29	23.7	OK
3.002	10	25	116.745	-0.238	0.000	0.28	30.3	OK
3.003	11	26	116.604	-0.278	0.000	0.31	54.0	OK
4.000	12	23	117.130	-0.156	0.000	0.20	20.9	OK
3.004	13	27	116.406	-0.354	0.000	0.23	72.0	OK
3.005	14	27	116.254	-0.299	0.000	0.39	94.9	OK
3.006	15	28	116.141	-0.324	0.000	0.43	97.1	OK
2.004	16	28	116.111	-0.332	0.000	0.41	142.4	OK
2.005	17	28	116.011	-0.342	0.000	0.38	159.6	OK
5.000	18	25	116.709	-0.178	0.000	0.10	11.7	OK
2.006	19	28	115.850	-0.329	0.000	0.42	174.3	OK
2.007	20	28	115.690	-0.317	0.000	0.45	181.7	OK
1.004	21	28	115.599	-0.249	0.000	0.64	222.5	OK

M-EC		Page 218
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		


Summary Wizard of 15 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	29	115.367	-0.420	0.000	0.40		246.5	OK
6.000	23	23	116.801	-0.129	0.000	0.37		16.6	OK
6.001	24	23	116.575	-0.118	0.000	0.46		16.8	OK
6.002	25	25	116.446	-0.179	0.000	0.33		24.7	OK
6.003	26	25	116.171	-0.144	0.000	0.53		32.5	OK
6.004	27	26	116.038	-0.218	0.000	0.35		44.1	OK
6.005	28	27	115.719	-0.264	0.000	0.19		44.4	OK
1.006	29	33	115.195	-0.435	0.000	0.37		307.5	OK
7.000	30	16	118.117	-0.143	0.000	0.28		11.0	OK
7.001	31	17	117.937	-0.158	0.000	0.19		22.9	OK
1.007	8	34	114.960	-0.381	0.000	0.43		318.1	OK
8.000	60	20	116.699	-0.157	0.000	0.19		7.5	OK
8.001	61	23	116.441	-0.243	0.000	0.08		8.5	OK
8.002	35	23	116.170	-0.258	0.000	0.05		11.8	OK
1.008	10	35	114.847	-0.232	0.000	0.97		322.4	OK
9.000	62	16	119.120	-0.180	0.000	0.32		26.9	OK
10.000	40	16	119.000	0.032	0.000	1.29		79.4	SURCHARGED
9.001	63	17	118.832	-0.147	0.000	0.67		111.7	OK
9.002	64	17	118.284	-0.234	0.000	0.30		137.5	OK
9.003	148	33	115.057	-0.209	0.000	0.55		141.5	OK
1.009	11	35	114.821	-0.239	0.000	0.56		413.6	OK
1.010	12	35	114.774	-0.202	0.000	1.11		415.8	OK
1.011	13	35	114.742	-0.212	0.000	0.96		416.3	OK
1.012	14	36	114.702	-0.219	0.000	0.44		413.6	OK
1.013	15	36	114.686	-0.184	0.000	0.91		413.6	OK
1.014	16	36	114.682	-0.165	0.000	0.45		409.9	OK
11.000	TWC16	16	117.708	-0.133	0.000	0.34		33.5	OK
11.001	TWC17	27	115.515	-0.145	0.000	0.27		33.7	OK
1.015	17	35	114.664	-0.206	0.000	0.27		389.4	OK
1.016	18	35	114.636	-0.131	0.000	0.25		333.2	OK
12.000	TWC1	17	117.661	-0.140	0.000	0.30		11.1	OK
12.001	TWC2	18	117.510	-0.126	0.000	0.39		14.9	OK
12.002	TWC3	18	117.301	-0.069	0.000	0.81		27.9	OK
12.003	TWC4	18	117.232	-0.065	0.000	0.85		28.1	OK
13.000	TWC5	16	118.180	-0.110	0.000	0.50		19.1	OK
13.001	TWC6	17	118.004	-0.064	0.000	0.84		31.4	OK
13.002	TWC7	17	117.793	-0.105	0.000	0.55		38.9	OK
12.004	TWC8	18	117.131	-0.111	0.000	0.75		72.9	OK
12.005	TWC9	18	117.069	-0.099	0.000	0.89		78.3	OK
12.006	TWC10	19	116.932	-0.188	0.000	0.50		80.5	OK
1.017	TWC11	34	114.571	-0.096	0.000	0.22		322.5	OK
1.018	19	34	114.499	-0.094	0.000	0.15		306.4	OK
14.000	TWC12	17	117.249	-0.160	0.000	0.18		6.7	OK
14.001	TWC13	18	117.073	-0.179	0.000	0.09		11.8	OK
14.002	TWC14	23	116.137	-0.142	0.000	0.29		22.6	OK
1.019	TWC15	33	114.417	0.089	0.000	0.22		272.3	SURCHARGED
15.000	65	17	117.202	-0.167	0.000	0.39		27.0	OK
16.000	136	16	118.047	-0.167	0.000	0.15		8.8	OK
16.001	137	16	117.743	-0.164	0.000	0.16		9.2	OK

M-EC		Page 219
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 15 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	18	117.489	-0.230	0.000	0.12		15.7	OK
15.001	66	21	116.991	-0.195	0.000	0.46		54.2	OK
15.002	67	23	116.864	-0.180	0.000	0.53		60.2	OK
17.000	9	17	117.318	-0.266	0.000	0.03		2.3	OK
17.001	75	18	117.183	-0.214	0.000	0.18		13.7	OK
17.002	76	23	116.782	-0.438	0.000	0.06		25.8	OK
15.003	68	23	116.647	-0.298	0.000	0.38		92.8	OK
15.004	69	23	116.477	-0.340	0.000	0.34		106.9	OK
15.005	70	23	116.418	-0.310	0.000	0.37		103.4	OK
15.006	71	23	116.387	-0.287	0.000	0.37		114.2	OK
18.000	147	19	116.803	-0.168	0.000	0.14		5.5	OK
18.001	112	23	116.643	-0.204	0.000	0.22		11.7	OK
18.002	113	23	116.482	-0.321	0.000	0.12		14.6	OK
19.000	115	17	117.310	-0.184	0.000	0.07		3.6	OK
19.001	116	18	117.057	-0.173	0.000	0.12		9.2	OK
18.003	77	23	116.447	-0.303	0.000	0.20		25.5	OK
20.000	134	17	117.263	-0.169	0.000	0.14		12.0	OK
18.004	135	23	116.398	-0.302	0.000	0.25		42.4	OK
18.005	78	23	116.377	-0.268	0.000	0.24		42.7	OK
15.007	72	23	116.359	-0.239	0.000	0.52		149.7	OK
15.008	73	25	116.290	-0.164	0.000	0.67		142.6	OK
15.009	74	25	116.246	-0.165	0.000	0.87		141.8	OK
15.010	98	25	116.099	-0.286	0.000	0.52		139.4	OK
15.011	99	25	115.979	-0.304	0.000	0.47		133.0	OK
15.012	101	25	115.789	-0.310	0.000	0.47		130.3	OK
21.000	142	17	117.149	-0.140	0.000	0.30		13.6	OK
21.001	143	21	116.731	-0.136	0.000	0.33		19.4	OK
22.000	118	19	117.106	-0.200	0.000	0.03		1.0	OK
22.001	119	20	117.059	-0.161	0.000	0.18		5.6	OK
22.002	120	20	117.015	-0.146	0.000	0.26		16.4	OK
23.000	129	22	116.650	-0.227	0.000	0.14		11.0	OK
23.001	130	23	116.514	-0.228	0.000	0.13		12.9	OK
22.003	121	25	116.359	-0.135	0.000	0.59		38.1	OK
24.000	131	19	116.960	-0.118	0.000	0.44		18.5	OK
24.001	132	22	116.720	-0.063	0.000	0.87		23.5	OK
24.002	133	23	116.534	-0.207	0.000	0.21		27.0	OK
22.004	122	25	116.186	-0.238	0.000	0.37		68.2	OK
22.005	123	25	116.136	-0.193	0.000	0.50		76.2	OK
25.000	139	20	116.772	-0.114	0.000	0.47		12.9	OK
25.001	140	22	116.653	-0.121	0.000	0.43		26.5	OK
22.006	124	25	116.090	-0.172	0.000	0.69		104.1	OK
22.007	125	25	115.865	-0.342	0.000	0.38		104.8	OK
22.008	126	25	115.697	-0.463	0.000	0.20		109.0	OK
22.009	127	25	115.658	-0.405	0.000	0.43		106.2	OK
21.002	149	27	115.458	-0.557	0.000	0.15		119.5	OK
1.020	20	33	114.412	0.858	0.000	3.94		261.1	SURCHARGED
1.021	108	34	113.978	0.433	0.000	1.03		259.0	SURCHARGED
1.022	21	34	113.853	0.444	0.000	0.99		253.5	SURCHARGED
1.023	22	34	113.702	0.481	0.000	1.08		264.5	SURCHARGED

M-EC		Page 220
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 15 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	16	119.345	-0.593	0.000	0.04		25.4	OK
26.001	90	16	119.018	-0.589	0.000	0.04		29.4	OK
27.000	200	16	119.578	-0.238	0.000	0.09		14.7	OK
27.001	109	16	118.872	-0.407	0.000	0.11		16.0	OK
26.002	91	16	118.642	-0.606	0.000	0.08		45.9	OK
28.000	TWD27	16	119.415	-0.202	0.000	0.23		29.8	OK
26.003	91A	16	118.516	-0.646	0.000	0.11		80.3	OK
26.004	92	17	118.442	-0.622	0.000	0.14		89.7	OK
26.005	93	17	118.365	-0.638	0.000	0.12		88.8	OK
29.000	TWD29	16	119.437	-0.128	0.000	0.37		13.4	OK
29.001	TWD30	17	119.277	-0.181	0.000	0.33		21.0	OK
29.002	TWD31	17	119.127	-0.221	0.000	0.16		27.4	OK
26.006	94	17	118.255	-0.611	0.000	0.15		116.5	OK
26.007	95	17	118.146	-0.609	0.000	0.15		117.9	OK
30.000	201	16	119.240	-0.201	0.000	0.23		19.6	OK
30.001	202	17	119.012	-0.178	0.000	0.34		25.7	OK
30.002	203	17	118.962	-0.139	0.000	0.56		42.0	OK
30.003	204	17	118.731	-0.252	0.000	0.23		48.6	OK
30.004	117	17	118.484	-0.187	0.000	0.49		51.3	OK
26.008	95A	17	118.049	-0.562	0.000	0.22		175.8	OK
26.009	96	17	117.847	-0.586	0.000	0.18		171.1	OK
26.010	97	17	117.428	-0.610	0.000	0.15		170.4	OK
31.000	121	16	117.134	-0.486	0.000	0.35		125.6	OK
32.000	TWD4	16	120.097	-0.164	0.000	0.16		7.9	OK
32.001	TWD5	17	119.904	-0.145	0.000	0.27		15.9	OK
33.000	TWD16	16	119.552	-0.159	0.000	0.44		28.5	OK
32.002	TWD6	17	119.388	-0.200	0.000	0.43		46.3	OK
34.000	TWD17	16	119.552	-0.155	0.000	0.21		10.8	OK
35.000	TWD18	16	119.479	-0.159	0.000	0.18		7.6	OK
32.003	TWD7	17	119.232	-0.208	0.000	0.40		66.8	OK
32.004	TWD8	17	118.728	-0.255	0.000	0.39		79.6	OK
32.005	TWD9	17	118.626	-0.225	0.000	0.49		83.4	OK
32.006	TWD10	17	118.577	-0.224	0.000	0.50		84.8	OK
36.000	TWD19	16	119.598	-0.123	0.000	0.42		28.7	OK
32.007	TWD11	17	117.503	-0.218	0.000	0.74		111.1	OK
37.000	TWD20	16	119.344	-0.142	0.000	0.29		10.8	OK
37.001	TWD21	17	119.083	-0.188	0.000	0.29		19.5	OK
37.002	TWD22	17	118.898	-0.168	0.000	0.38		26.0	OK
37.003	TWD23	17	118.629	-0.231	0.000	0.31		32.8	OK
37.004	TWD24	17	118.518	-0.268	0.000	0.18		37.7	OK
37.005	TWD25	17	118.032	-0.266	0.000	0.19		42.2	OK
32.008	TWD12	20	117.355	-0.345	0.000	0.45		157.7	OK
38.000	TWD26	16	119.282	-0.168	0.000	0.14		14.2	OK
32.009	TWD13	20	117.241	-0.374	0.000	0.37		162.8	OK
32.010	TWD14	20	117.181	-0.366	0.000	0.39		162.3	OK
32.011	TWD15	20	117.133	-0.362	0.000	0.53		165.0	OK
26.011	98	20	116.833	-0.755	0.000	0.18		384.3	OK
26.012	99	20	116.311	-0.709	0.000	0.23		384.6	OK
26.013	100	20	116.199	-0.530	0.000	0.49		383.0	OK

M-EC		Page 221
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 15 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	34	113.638	0.506	0.000	1.59		411.7	SURCHARGED
1.025	24	34	113.124	0.198	0.000	1.54		392.4	SURCHARGED
1.026	25	36	112.628	-0.161	0.000	0.61		390.3	OK
39.000	79	16	121.682	-0.491	0.000	0.01		6.1	OK
39.001	80	17	121.295	-0.464	0.000	0.03		15.2	OK
39.002	81	17	120.733	-0.594	0.000	0.03		18.8	OK
40.000	130	20	121.033	-0.168	0.000	0.15		4.9	OK
41.000	BAR1	16	121.716	-0.089	0.000	0.34		9.7	OK
41.001	131	17	120.904	-0.270	0.000	0.17		16.1	OK
39.003	81A	17	120.576	-0.558	0.000	0.07		42.6	OK
42.000	133	20	120.688	-0.258	0.000	0.05		2.7	OK
39.004	82	17	120.312	-0.593	0.000	0.10		52.6	OK
39.005	83	17	120.229	-0.606	0.000	0.08		52.2	OK
43.000	BAR2	16	121.546	-0.083	0.000	0.41		12.7	OK
43.001	136	17	120.448	-0.244	0.000	0.26		19.2	OK
39.006	83A	17	120.094	-0.576	0.000	0.12		74.5	OK
44.000	206	17	120.535	-0.322	0.000	0.12		12.7	OK
44.001	207	19	120.513	-0.306	0.000	0.12		14.5	OK
44.002	208	20	120.498	-0.278	0.000	0.17		22.7	OK
44.003	209	20	120.472	-0.232	0.000	0.24		22.0	OK
45.000	210	16	120.922	-0.163	0.000	0.17		7.6	OK
45.001	211	17	120.733	-0.209	0.000	0.20		13.0	OK
45.002	212	20	120.491	-0.265	0.000	0.17		18.6	OK
44.004	213	20	120.465	-0.217	0.000	0.47		48.4	OK
44.005	214	20	120.427	-0.218	0.000	0.37		49.7	OK
44.006	215	20	120.383	-0.197	0.000	0.60		56.8	OK
44.007	138	20	120.317	-0.240	0.000	0.45		56.8	OK
39.007	84	18	119.975	-0.550	0.000	0.23		137.9	OK
46.000	BAR4	16	121.594	-0.115	0.000	0.46		17.5	OK
46.001	BAR5	17	121.396	-0.092	0.000	0.65		23.3	OK
47.000	BAR6	16	122.070	-0.081	0.000	0.42		7.1	OK
47.001	BAR7	17	121.746	-0.125	0.000	0.41		14.9	OK
47.002	BAR8	17	121.593	-0.134	0.000	0.35		20.3	OK
46.002	BAR9	17	121.280	-0.099	0.000	0.77		47.7	OK
46.003	BAR10	17	121.126	-0.175	0.000	0.36		58.6	OK
46.004	140	17	120.267	-0.228	0.000	0.49		58.7	OK
39.008	85	17	119.924	-0.544	0.000	0.25		195.0	OK
39.009	86	18	119.788	-0.546	0.000	0.25		199.8	OK
48.000	BAR3	16	120.850	-0.098	0.000	0.26		8.5	OK
48.001	143	17	119.839	-0.335	0.000	0.14		16.3	OK
49.000	216	16	120.449	-0.221	0.000	0.15		26.6	OK
49.001	144	16	119.885	-0.310	0.000	0.21		27.7	OK
39.010	87	20	119.548	-0.604	0.000	0.24		226.9	OK
39.011	88	20	119.426	-0.581	0.000	0.27		258.9	OK
39.012	103	20	119.281	-0.570	0.000	0.28		272.1	OK
50.000	BAR11	16	121.371	-0.074	0.000	0.50		8.7	OK
50.001	BAR12	17	121.009	-0.129	0.000	0.37		19.1	OK
51.000	BAR13	17	120.814	-0.154	0.000	0.11		3.4	OK
50.002	BAR14	17	120.806	-0.113	0.000	0.50		26.7	OK

M-EC		Page 222
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 15 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	16	120.876	-0.075	0.000	0.48		8.1	OK
52.001	BAR16	17	120.588	-0.138	0.000	0.31		13.7	OK
50.003	BAR17	17	120.503	-0.115	0.000	0.70		42.8	OK
50.004	BAR18	17	120.436	-0.105	0.000	0.74		46.9	OK
50.005	BAR19	17	120.260	-0.189	0.000	0.30		51.9	OK
50.006	149	17	119.445	-0.280	0.000	0.31		51.6	OK
53.000	TWD1	16	120.448	-0.166	0.000	0.15		5.7	OK
54.000	TWD3	16	120.687	-0.195	0.000	0.04		3.8	OK
53.001	TWD2	17	120.087	-0.159	0.000	0.19		16.9	OK
39.013	104	20	119.138	-0.532	0.000	0.49		326.3	OK
39.014	104A	20	118.976	-0.659	0.000	0.28		319.2	OK
55.000	BAR20	16	121.432	-0.061	0.000	0.64		11.1	OK
55.001	BAR21	17	120.921	-0.132	0.000	0.35		19.0	OK
56.000	BAR22	16	120.494	-0.111	0.000	0.49		18.0	OK
56.001	BAR23	17	120.382	-0.087	0.000	0.69		22.5	OK
55.002	BAR24	17	120.269	-0.145	0.000	0.52		42.4	OK
55.003	BAR25	17	119.997	-0.197	0.000	0.46		48.8	OK
55.004	BAR26	17	119.848	-0.268	0.000	0.18		56.7	OK
39.015	105	20	118.796	-0.678	0.000	0.25		340.8	OK
39.016	106	20	118.632	-1.515	0.000	0.04		314.5	OK
39.017	107	21	115.952	-0.595	0.000	0.17		314.1	OK
1.027	26	30	112.222	-0.686	0.000	0.18		664.5	OK
1.028	27	30	109.396	-0.351	0.000	0.32		658.9	OK
1.029	28	30	106.453	-0.738	0.000	0.14		630.3	OK
1.030	29	32	97.492	-0.985	0.000	0.10		614.3	OK
1.031	30	33	92.928	-0.454	0.000	0.29		593.6	OK
1.032	31	35	91.768	-0.482	0.000	0.35		543.3	OK
1.033	32	39	91.271	-0.852	0.000	0.16		516.6	OK
1.034	33	52	90.070	-0.203	0.000	0.57		140.1	OK*
57.000	108	27	91.210	-0.676	0.000	0.28		454.3	OK
57.001	109	33	90.924	-0.962	0.000	0.15		290.9	OK
57.002	110	41	90.555	-1.331	0.000	0.08		185.3	OK
1.035	109	52	89.723	-0.143	0.000	0.26		63.3	OK*
1.036	34	10	86.650	0.000	0.000	0.63		52.7	SURCHARGED*

M-EC		Page 223
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	26	116.628	-0.227	0.000	0.14	10.8	OK
1.001	2	28	116.488	-0.221	0.000	0.16	13.8	OK
1.002	3	28	116.196	-0.292	0.000	0.11	13.8	OK
1.003	4	29	116.090	-0.257	0.000	0.22	38.3	OK
2.000	5	21	118.445	-0.230	0.000	0.12	14.1	OK
2.001	6	22	118.269	-0.192	0.000	0.28	28.8	OK
2.002	6	23	118.013	-0.200	0.000	0.24	32.7	OK
2.003	8	26	117.131	-0.217	0.000	0.17	40.8	OK
3.000	9.1	21	118.295	-0.130	0.000	0.37	19.4	OK
3.001	9	28	116.945	-0.200	0.000	0.24	19.4	OK
3.002	10	28	116.731	-0.252	0.000	0.23	25.1	OK
3.003	11	29	116.589	-0.293	0.000	0.26	46.2	OK
4.000	12	27	117.121	-0.165	0.000	0.16	16.3	OK
3.004	13	30	116.392	-0.368	0.000	0.19	61.0	OK
3.005	14	30	116.237	-0.316	0.000	0.33	82.3	OK
3.006	15	31	116.119	-0.346	0.000	0.37	83.8	OK
2.004	16	31	116.089	-0.354	0.000	0.36	123.3	OK
2.005	17	31	115.991	-0.362	0.000	0.33	138.7	OK
5.000	18	28	116.703	-0.184	0.000	0.08	9.1	OK
2.006	19	31	115.830	-0.349	0.000	0.37	152.0	OK
2.007	20	31	115.670	-0.337	0.000	0.40	159.6	OK
1.004	21	31	115.571	-0.277	0.000	0.56	195.8	OK

M-EC		Page 224
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 30 minute 1 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	31	115.345	-0.442	0.000	0.35		219.0	OK
6.000	23	26	116.788	-0.142	0.000	0.29		13.1	OK
6.001	24	26	116.561	-0.132	0.000	0.35		13.0	OK
6.002	25	28	116.432	-0.193	0.000	0.27		20.3	OK
6.003	26	28	116.155	-0.160	0.000	0.44		27.2	OK
6.004	27	29	116.024	-0.232	0.000	0.31		38.4	OK
6.005	28	31	115.710	-0.273	0.000	0.16		38.3	OK
1.006	29	32	115.220	-0.410	0.000	0.33		272.7	OK
7.000	30	21	118.107	-0.153	0.000	0.22		8.7	OK
7.001	31	23	117.930	-0.165	0.000	0.16		18.6	OK
1.007	8	32	115.169	-0.172	0.000	0.38		287.7	OK
8.000	60	24	116.689	-0.167	0.000	0.15		5.9	OK
8.001	61	26	116.433	-0.251	0.000	0.06		6.7	OK
8.002	35	27	116.166	-0.262	0.000	0.04		9.4	OK
1.008	10	31	115.079	0.000	0.000	0.88		291.3	OK
9.000	62	21	119.103	-0.197	0.000	0.25		21.1	OK
10.000	40	22	118.920	-0.048	0.000	1.00		61.4	OK
9.001	63	22	118.800	-0.179	0.000	0.54		90.0	OK
9.002	64	23	118.268	-0.250	0.000	0.24		112.6	OK
9.003	148	32	115.065	-0.201	0.000	0.45		115.4	OK
1.009	11	29	115.060	0.000	0.000	0.53		386.4	OK
1.010	12	30	114.976	0.000	0.000	1.04		388.6	OK
1.011	13	31	114.954	0.000	0.000	0.89		388.5	OK
1.012	14	29	114.921	0.000	0.000	0.41		389.1	OK
1.013	15	31	114.878	0.008	0.000	0.85		387.8	SURCHARGED
1.014	16	31	114.874	0.027	0.000	0.40		371.4	SURCHARGED
11.000	TWC16	21	117.695	-0.146	0.000	0.27		26.4	OK
11.001	TWC17	30	115.505	-0.155	0.000	0.21		26.4	OK
1.015	17	30	114.870	0.000	0.000	0.25		351.2	OK
1.016	18	30	114.767	0.000	0.000	0.27		359.1	OK
12.000	TWC1	21	117.650	-0.151	0.000	0.24		8.7	OK
12.001	TWC2	22	117.499	-0.137	0.000	0.32		12.2	OK
12.002	TWC3	23	117.283	-0.087	0.000	0.69		23.7	OK
12.003	TWC4	23	117.214	-0.083	0.000	0.71		23.6	OK
13.000	TWC5	21	118.164	-0.126	0.000	0.40		15.0	OK
13.001	TWC6	23	117.982	-0.086	0.000	0.70		26.1	OK
13.002	TWC7	23	117.780	-0.118	0.000	0.46		32.5	OK
12.004	TWC8	23	117.101	-0.141	0.000	0.64		61.8	OK
12.005	TWC9	23	117.039	-0.129	0.000	0.75		66.7	OK
12.006	TWC10	24	116.916	-0.204	0.000	0.43		69.0	OK
1.017	TWC11	30	114.667	0.000	0.000	0.24		350.2	OK
1.018	19	30	114.631	0.038	0.000	0.15		318.2	SURCHARGED
14.000	TWC12	21	117.240	-0.169	0.000	0.14		5.3	OK
14.001	TWC13	22	117.068	-0.184	0.000	0.08		9.6	OK
14.002	TWC14	26	116.128	-0.151	0.000	0.24		18.8	OK
1.019	TWC15	30	114.627	0.299	0.000	0.23		286.3	SURCHARGED
15.000	65	21	117.184	-0.185	0.000	0.31		21.2	OK
16.000	136	21	118.039	-0.175	0.000	0.11		6.8	OK
16.001	137	21	117.735	-0.172	0.000	0.13		7.2	OK



M-EC		Page 225
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 30 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	22	117.482	-0.237	0.000	0.10		12.7	OK
15.001	66	26	116.970	-0.216	0.000	0.38		44.4	OK
15.002	67	26	116.843	-0.201	0.000	0.44		49.5	OK
17.000	9	21	117.315	-0.269	0.000	0.02		1.8	OK
17.001	75	23	117.174	-0.223	0.000	0.15		11.5	OK
17.002	76	26	116.773	-0.447	0.000	0.05		21.7	OK
15.003	68	26	116.628	-0.317	0.000	0.33		79.2	OK
15.004	69	25	116.461	-0.356	0.000	0.29		92.2	OK
15.005	70	24	116.402	-0.326	0.000	0.32		90.5	OK
15.006	71	24	116.374	-0.300	0.000	0.33		101.7	OK
18.000	147	23	116.796	-0.175	0.000	0.11		4.3	OK
18.001	112	26	116.633	-0.214	0.000	0.18		9.5	OK
18.002	113	26	116.470	-0.333	0.000	0.10		12.2	OK
19.000	115	21	117.304	-0.190	0.000	0.06		2.8	OK
19.001	116	23	117.052	-0.178	0.000	0.10		7.6	OK
18.003	77	25	116.437	-0.313	0.000	0.17		21.4	OK
20.000	134	21	117.256	-0.176	0.000	0.11		9.3	OK
18.004	135	25	116.388	-0.312	0.000	0.21		35.9	OK
18.005	78	24	116.364	-0.281	0.000	0.21		37.4	OK
15.007	72	24	116.346	-0.252	0.000	0.48		137.2	OK
15.008	73	26	116.274	-0.180	0.000	0.64		135.6	OK
15.009	74	26	116.231	-0.180	0.000	0.83		135.0	OK
15.010	98	26	116.092	-0.293	0.000	0.50		133.6	OK
15.011	99	26	115.972	-0.311	0.000	0.46		129.9	OK
15.012	101	26	115.786	-0.313	0.000	0.46		128.4	OK
21.000	142	21	117.138	-0.151	0.000	0.23		10.7	OK
21.001	143	25	116.721	-0.146	0.000	0.27		15.8	OK
22.000	118	23	117.104	-0.202	0.000	0.02		0.8	OK
22.001	119	24	117.052	-0.168	0.000	0.15		4.7	OK
22.002	120	24	117.008	-0.153	0.000	0.22		13.9	OK
23.000	129	26	116.642	-0.235	0.000	0.11		8.6	OK
23.001	130	26	116.506	-0.236	0.000	0.10		10.3	OK
22.003	121	28	116.341	-0.153	0.000	0.48		31.5	OK
24.000	131	23	116.945	-0.133	0.000	0.35		14.5	OK
24.001	132	26	116.696	-0.086	0.000	0.69		18.8	OK
24.002	133	26	116.524	-0.217	0.000	0.17		21.9	OK
22.004	122	28	116.162	-0.263	0.000	0.31		56.9	OK
22.005	123	28	116.109	-0.219	0.000	0.42		64.1	OK
25.000	139	24	116.756	-0.130	0.000	0.37		10.1	OK
25.001	140	26	116.641	-0.133	0.000	0.35		21.7	OK
22.006	124	28	116.061	-0.200	0.000	0.59		88.8	OK
22.007	125	28	115.841	-0.365	0.000	0.32		88.4	OK
22.008	126	29	115.671	-0.489	0.000	0.17		93.5	OK
22.009	127	29	115.632	-0.431	0.000	0.38		92.4	OK
21.002	149	30	115.446	-0.569	0.000	0.13		105.4	OK
1.020	20	30	114.623	1.069	0.000	3.99		264.7	SURCHARGED
1.021	108	30	114.214	0.669	0.000	1.03		258.0	SURCHARGED
1.022	21	29	114.112	0.703	0.000	1.01		257.4	SURCHARGED
1.023	22	29	113.982	0.761	0.000	1.08		263.6	SURCHARGED

M-EC		Page 226
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 30 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	21	119.337	-0.601	0.000	0.03		19.9	OK
26.001	90	21	119.009	-0.598	0.000	0.03		23.3	OK
27.000	200	21	119.569	-0.247	0.000	0.07		11.4	OK
27.001	109	21	118.859	-0.420	0.000	0.09		12.7	OK
26.002	91	21	118.621	-0.627	0.000	0.06		35.9	OK
28.000	TWD27	21	119.402	-0.215	0.000	0.18		23.2	OK
26.003	91A	21	118.496	-0.666	0.000	0.08		62.9	OK
26.004	92	22	118.421	-0.643	0.000	0.11		71.5	OK
26.005	93	22	118.346	-0.657	0.000	0.09		71.3	OK
29.000	TWD29	21	119.423	-0.142	0.000	0.30		10.6	OK
29.001	TWD30	22	119.263	-0.195	0.000	0.26		16.9	OK
29.002	TWD31	23	119.119	-0.229	0.000	0.13		22.5	OK
26.006	94	22	118.233	-0.633	0.000	0.12		94.0	OK
26.007	95	22	118.124	-0.631	0.000	0.13		96.9	OK
30.000	201	21	119.228	-0.213	0.000	0.18		15.4	OK
30.001	202	22	118.997	-0.193	0.000	0.27		20.5	OK
30.002	203	23	118.944	-0.157	0.000	0.46		34.7	OK
30.003	204	23	118.720	-0.263	0.000	0.19		40.5	OK
30.004	117	23	118.464	-0.207	0.000	0.41		42.9	OK
26.008	95A	23	118.023	-0.588	0.000	0.18		145.7	OK
26.009	96	23	117.823	-0.610	0.000	0.15		143.3	OK
26.010	97	23	117.409	-0.629	0.000	0.13		143.3	OK
31.000	121	21	117.087	-0.533	0.000	0.27		98.9	OK
32.000	TWD4	21	120.089	-0.172	0.000	0.13		6.2	OK
32.001	TWD5	23	119.895	-0.154	0.000	0.22		13.0	OK
33.000	TWD16	21	119.533	-0.178	0.000	0.34		22.4	OK
32.002	TWD6	22	119.367	-0.221	0.000	0.35		37.6	OK
34.000	TWD17	21	119.542	-0.165	0.000	0.16		8.5	OK
35.000	TWD18	21	119.470	-0.168	0.000	0.14		6.0	OK
32.003	TWD7	23	119.213	-0.227	0.000	0.33		54.5	OK
32.004	TWD8	23	118.709	-0.274	0.000	0.32		66.2	OK
32.005	TWD9	23	118.603	-0.248	0.000	0.42		70.4	OK
32.006	TWD10	23	118.554	-0.247	0.000	0.42		70.9	OK
36.000	TWD19	21	119.584	-0.137	0.000	0.33		22.4	OK
32.007	TWD11	23	117.464	-0.257	0.000	0.62		94.1	OK
37.000	TWD20	21	119.333	-0.153	0.000	0.22		8.5	OK
37.001	TWD21	22	119.071	-0.200	0.000	0.24		16.2	OK
37.002	TWD22	23	118.886	-0.180	0.000	0.33		22.3	OK
37.003	TWD23	23	118.617	-0.243	0.000	0.27		28.6	OK
37.004	TWD24	23	118.510	-0.276	0.000	0.16		33.0	OK
37.005	TWD25	22	118.025	-0.273	0.000	0.16		37.2	OK
32.008	TWD12	22	117.332	-0.368	0.000	0.39		136.6	OK
38.000	TWD26	21	119.275	-0.175	0.000	0.11		11.1	OK
32.009	TWD13	22	117.218	-0.397	0.000	0.33		144.5	OK
32.010	TWD14	21	117.160	-0.387	0.000	0.36		146.1	OK
32.011	TWD15	21	117.112	-0.383	0.000	0.48		150.9	OK
26.011	98	21	116.820	-0.768	0.000	0.16		357.2	OK
26.012	99	21	116.299	-0.721	0.000	0.22		356.4	OK
26.013	100	21	116.175	-0.554	0.000	0.46		356.4	OK

M-EC		Page 227
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 30 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	28	113.923	0.791	0.000	1.79		463.8	SURCHARGED
1.025	24	28	113.220	0.294	0.000	1.76		450.2	SURCHARGED
1.026	25	29	112.649	-0.140	0.000	0.70		448.3	OK
39.000	79	20	121.674	-0.499	0.000	0.01		4.8	OK
39.001	80	23	121.291	-0.468	0.000	0.03		12.6	OK
39.002	81	23	120.726	-0.601	0.000	0.03		15.4	OK
40.000	130	21	121.032	-0.169	0.000	0.14		4.7	OK
41.000	BAR1	21	121.707	-0.098	0.000	0.26		7.6	OK
41.001	131	22	120.891	-0.283	0.000	0.14		13.1	OK
39.003	81A	23	120.564	-0.570	0.000	0.06		35.3	OK
42.000	133	21	120.687	-0.259	0.000	0.05		2.6	OK
39.004	82	23	120.299	-0.606	0.000	0.08		44.3	OK
39.005	83	23	120.214	-0.621	0.000	0.07		44.1	OK
43.000	BAR2	21	121.537	-0.092	0.000	0.32		9.9	OK
43.001	136	22	120.433	-0.259	0.000	0.21		15.5	OK
39.006	83A	23	120.081	-0.589	0.000	0.10		63.0	OK
44.000	206	23	120.521	-0.336	0.000	0.10		10.1	OK
44.001	207	23	120.500	-0.319	0.000	0.10		12.0	OK
44.002	208	22	120.484	-0.292	0.000	0.14		19.6	OK
44.003	209	22	120.458	-0.246	0.000	0.21		19.4	OK
45.000	210	21	120.914	-0.171	0.000	0.13		6.0	OK
45.001	211	22	120.722	-0.220	0.000	0.16		10.5	OK
45.002	212	23	120.479	-0.277	0.000	0.14		15.3	OK
44.004	213	22	120.451	-0.231	0.000	0.42		43.2	OK
44.005	214	22	120.413	-0.233	0.000	0.33		44.9	OK
44.006	215	22	120.368	-0.212	0.000	0.54		51.5	OK
44.007	138	22	120.306	-0.251	0.000	0.40		51.7	OK
39.007	84	23	119.958	-0.567	0.000	0.21		122.9	OK
46.000	BAR4	21	121.578	-0.131	0.000	0.36		13.7	OK
46.001	BAR5	22	121.380	-0.108	0.000	0.53		19.0	OK
47.000	BAR6	21	122.060	-0.091	0.000	0.33		5.6	OK
47.001	BAR7	23	121.736	-0.135	0.000	0.33		12.2	OK
47.002	BAR8	23	121.584	-0.143	0.000	0.29		16.9	OK
46.002	BAR9	23	121.254	-0.125	0.000	0.64		39.3	OK
46.003	BAR10	23	121.114	-0.187	0.000	0.30		49.1	OK
46.004	140	23	120.246	-0.249	0.000	0.41		49.3	OK
39.008	85	23	119.906	-0.562	0.000	0.22		171.1	OK
39.009	86	23	119.770	-0.564	0.000	0.22		175.9	OK
48.000	BAR3	21	120.843	-0.105	0.000	0.20		6.6	OK
48.001	143	22	119.826	-0.348	0.000	0.12		13.3	OK
49.000	216	21	120.439	-0.231	0.000	0.12		20.7	OK
49.001	144	21	119.866	-0.329	0.000	0.16		21.9	OK
39.010	87	22	119.532	-0.620	0.000	0.21		203.7	OK
39.011	88	22	119.409	-0.598	0.000	0.24		234.0	OK
39.012	103	21	119.264	-0.587	0.000	0.26		251.1	OK
50.000	BAR11	21	121.360	-0.085	0.000	0.40		6.8	OK
50.001	BAR12	23	120.998	-0.140	0.000	0.31		15.7	OK
51.000	BAR13	22	120.802	-0.166	0.000	0.09		2.7	OK
50.002	BAR14	23	120.794	-0.125	0.000	0.41		21.9	OK

M-EC		Page 228
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	21	120.865	-0.086	0.000	0.38		6.4	OK
52.001	BAR16	22	120.578	-0.148	0.000	0.25		11.1	OK
50.003	BAR17	23	120.482	-0.136	0.000	0.58		35.4	OK
50.004	BAR18	23	120.412	-0.129	0.000	0.62		38.8	OK
50.005	BAR19	23	120.250	-0.199	0.000	0.25		43.5	OK
50.006	149	23	119.430	-0.295	0.000	0.26		43.5	OK
53.000	TWD1	21	120.441	-0.173	0.000	0.12		4.5	OK
54.000	TWD3	21	120.684	-0.198	0.000	0.03		2.9	OK
53.001	TWD2	23	120.080	-0.166	0.000	0.15		13.8	OK
39.013	104	21	119.112	-0.558	0.000	0.45		299.1	OK
39.014	104A	21	118.962	-0.673	0.000	0.26		295.4	OK
55.000	BAR20	21	121.418	-0.075	0.000	0.50		8.8	OK
55.001	BAR21	22	120.911	-0.142	0.000	0.29		15.7	OK
56.000	BAR22	21	120.477	-0.128	0.000	0.39		14.2	OK
56.001	BAR23	22	120.363	-0.106	0.000	0.55		17.9	OK
55.002	BAR24	22	120.250	-0.164	0.000	0.42		34.5	OK
55.003	BAR25	23	119.979	-0.215	0.000	0.38		40.3	OK
55.004	BAR26	23	119.838	-0.278	0.000	0.15		47.6	OK
39.015	105	21	118.786	-0.688	0.000	0.24		322.3	OK
39.016	106	21	118.621	-1.526	0.000	0.04		306.4	OK
39.017	107	23	115.947	-0.600	0.000	0.16		305.4	OK
1.027	26	26	112.247	-0.661	0.000	0.19		730.0	OK
1.028	27	26	109.419	-0.328	0.000	0.35		725.5	OK
1.029	28	26	106.479	-0.712	0.000	0.15		700.4	OK
1.030	29	26	97.519	-0.958	0.000	0.11		683.5	OK
1.031	30	27	92.959	-0.423	0.000	0.32		665.5	OK
1.032	31	30	91.819	-0.431	0.000	0.39		618.5	OK
1.033	32	33	91.319	-0.804	0.000	0.19		594.3	OK
1.034	33	51	90.089	-0.184	0.000	0.63		155.1	OK*
57.000	108	28	91.191	-0.695	0.000	0.27		435.9	OK
57.001	109	32	90.945	-0.941	0.000	0.16		313.7	OK
57.002	110	38	90.612	-1.274	0.000	0.09		220.8	OK
1.035	109	51	89.746	-0.120	0.000	0.29		70.2	OK*
1.036	34	9	86.650	0.000	0.000	0.64		52.9	SURCHARGED*

M-EC		Page 229
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000    Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0    MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0    Inlet Coefficient 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 4  
Number of Online Controls 1    Number of Time/Area Diagrams 0  
Number of Offline Controls 0    Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)    19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0    DVD Status ON  
Analysis Timestep    Fine Inertia Status OFF  
DTS Status    ON


Profile(s)    Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)    1, 30, 100  
Climate Change (%)    0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	29	116.616	-0.239	0.000	0.09	7.2	OK
1.001	2	30	116.474	-0.235	0.000	0.11	9.3	OK
1.002	3	30	116.181	-0.307	0.000	0.08	9.3	OK
1.003	4	31	116.069	-0.278	0.000	0.15	26.8	OK
2.000	5	28	118.432	-0.243	0.000	0.08	9.3	OK
2.001	6	28	118.249	-0.212	0.000	0.19	19.7	OK
2.002	6	28	117.995	-0.218	0.000	0.17	22.5	OK
2.003	8	29	117.116	-0.232	0.000	0.12	28.2	OK
3.000	9.1	28	118.276	-0.149	0.000	0.25	13.1	OK
3.001	9	30	116.925	-0.220	0.000	0.16	13.1	OK
3.002	10	30	116.709	-0.274	0.000	0.16	17.1	OK
3.003	11	32	116.563	-0.319	0.000	0.18	32.3	OK
4.000	12	29	117.110	-0.176	0.000	0.11	10.8	OK
3.004	13	32	116.364	-0.396	0.000	0.14	42.7	OK
3.005	14	33	116.201	-0.352	0.000	0.24	58.2	OK
3.006	15	33	116.075	-0.390	0.000	0.27	59.9	OK
2.004	16	33	116.047	-0.396	0.000	0.25	87.5	OK
2.005	17	33	115.951	-0.402	0.000	0.24	99.6	OK
5.000	18	30	116.695	-0.192	0.000	0.05	6.0	OK
2.006	19	33	115.788	-0.391	0.000	0.26	109.8	OK
2.007	20	33	115.626	-0.381	0.000	0.29	115.6	OK
1.004	21	34	115.514	-0.334	0.000	0.41	141.9	OK

M-EC		Page 230
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	34	115.295	-0.492	0.000	0.26		160.6	OK
6.000	23	29	116.772	-0.158	0.000	0.19		8.7	OK
6.001	24	29	116.542	-0.151	0.000	0.24		8.7	OK
6.002	25	30	116.413	-0.212	0.000	0.19		14.0	OK
6.003	26	30	116.129	-0.186	0.000	0.31		18.9	OK
6.004	27	32	115.999	-0.257	0.000	0.22		27.2	OK
6.005	28	33	115.693	-0.290	0.000	0.12		27.2	OK
1.006	29	31	115.225	-0.405	0.000	0.24		200.8	OK
7.000	30	28	118.092	-0.168	0.000	0.15		5.7	OK
7.001	31	28	117.919	-0.176	0.000	0.11		12.8	OK
1.007	8	31	115.170	-0.171	0.000	0.29		214.1	OK
8.000	60	28	116.679	-0.177	0.000	0.10		3.9	OK
8.001	61	29	116.423	-0.261	0.000	0.04		4.4	OK
8.002	35	30	116.160	-0.268	0.000	0.03		6.4	OK
1.008	10	29	115.079	0.000	0.000	0.66		219.5	OK
9.000	62	28	119.083	-0.217	0.000	0.17		14.1	OK
10.000	40	28	118.850	-0.118	0.000	0.68		41.6	OK
9.001	63	28	118.761	-0.218	0.000	0.37		61.4	OK
9.002	64	28	118.246	-0.272	0.000	0.17		77.6	OK
9.003	148	31	115.068	-0.198	0.000	0.31		79.6	OK
1.009	11	30	115.060	0.000	0.000	0.40		296.2	OK
1.010	12	29	114.976	0.000	0.000	0.80		300.1	OK
1.011	13	30	114.954	0.000	0.000	0.69		301.1	OK
1.012	14	30	114.921	0.000	0.000	0.32		300.3	OK
1.013	15	30	114.881	0.011	0.000	0.65		296.8	SURCHARGED
1.014	16	30	114.876	0.029	0.000	0.31		283.6	SURCHARGED
11.000	TWC16	28	117.680	-0.161	0.000	0.18		17.5	OK
11.001	TWC17	32	115.491	-0.169	0.000	0.14		17.5	OK
1.015	17	29	114.870	0.000	0.000	0.19		271.0	OK
1.016	18	31	114.767	0.000	0.000	0.20		262.5	OK
12.000	TWC1	28	117.635	-0.166	0.000	0.16		5.8	OK
12.001	TWC2	28	117.482	-0.154	0.000	0.22		8.3	OK
12.002	TWC3	28	117.255	-0.115	0.000	0.48		16.5	OK
12.003	TWC4	28	117.185	-0.112	0.000	0.50		16.4	OK
13.000	TWC5	28	118.144	-0.146	0.000	0.26		10.0	OK
13.001	TWC6	28	117.953	-0.115	0.000	0.48		17.9	OK
13.002	TWC7	28	117.760	-0.138	0.000	0.32		22.6	OK
12.004	TWC8	28	117.053	-0.189	0.000	0.45		43.1	OK
12.005	TWC9	28	116.989	-0.179	0.000	0.53		47.2	OK
12.006	TWC10	28	116.886	-0.234	0.000	0.30		48.9	OK
1.017	TWC11	31	114.667	0.000	0.000	0.18		255.4	OK
1.018	19	31	114.563	-0.030	0.000	0.12		247.6	OK
14.000	TWC12	28	117.230	-0.179	0.000	0.09		3.5	OK
14.001	TWC13	28	117.060	-0.192	0.000	0.05		6.6	OK
14.002	TWC14	29	116.115	-0.164	0.000	0.17		13.1	OK
1.019	TWC15	31	114.449	0.121	0.000	0.19		238.9	SURCHARGED
15.000	65	28	117.162	-0.207	0.000	0.21		14.2	OK
16.000	136	28	118.030	-0.184	0.000	0.08		4.5	OK
16.001	137	28	117.726	-0.181	0.000	0.09		4.8	OK

M-EC		Page 231
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 1 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	28	117.470	-0.249	0.000	0.07		8.7	OK
15.001	66	29	116.940	-0.246	0.000	0.26		30.4	OK
15.002	67	29	116.810	-0.234	0.000	0.30		34.0	OK
17.000	9	28	117.305	-0.279	0.000	0.01		1.2	OK
17.001	75	28	117.161	-0.236	0.000	0.10		8.0	OK
17.002	76	29	116.761	-0.459	0.000	0.04		15.3	OK
15.003	68	29	116.590	-0.355	0.000	0.23		55.1	OK
15.004	69	29	116.418	-0.399	0.000	0.21		66.2	OK
15.005	70	30	116.355	-0.373	0.000	0.23		65.6	OK
15.006	71	30	116.324	-0.350	0.000	0.24		75.1	OK
18.000	147	28	116.786	-0.185	0.000	0.07		2.9	OK
18.001	112	29	116.617	-0.230	0.000	0.12		6.5	OK
18.002	113	29	116.449	-0.354	0.000	0.07		8.5	OK
19.000	115	28	117.298	-0.196	0.000	0.04		1.9	OK
19.001	116	28	117.043	-0.187	0.000	0.07		5.3	OK
18.003	77	29	116.410	-0.340	0.000	0.12		15.2	OK
20.000	134	28	117.247	-0.185	0.000	0.07		6.2	OK
18.004	135	30	116.352	-0.348	0.000	0.15		25.9	OK
18.005	78	30	116.313	-0.332	0.000	0.16		28.6	OK
15.007	72	30	116.294	-0.304	0.000	0.37		106.2	OK
15.008	73	30	116.214	-0.240	0.000	0.51		108.6	OK
15.009	74	30	116.170	-0.241	0.000	0.67		108.6	OK
15.010	98	30	116.058	-0.327	0.000	0.40		107.8	OK
15.011	99	30	115.939	-0.344	0.000	0.38		106.5	OK
15.012	101	30	115.756	-0.343	0.000	0.38		106.0	OK
21.000	142	28	117.123	-0.166	0.000	0.16		7.2	OK
21.001	143	28	116.706	-0.161	0.000	0.18		10.7	OK
22.000	118	28	117.097	-0.209	0.000	0.02		0.5	OK
22.001	119	28	117.043	-0.177	0.000	0.10		3.3	OK
22.002	120	28	116.995	-0.166	0.000	0.16		9.8	OK
23.000	129	29	116.629	-0.248	0.000	0.07		5.7	OK
23.001	130	29	116.493	-0.249	0.000	0.07		6.9	OK
22.003	121	30	116.314	-0.180	0.000	0.34		21.9	OK
24.000	131	28	116.927	-0.152	0.000	0.23		9.7	OK
24.001	132	29	116.666	-0.117	0.000	0.47		12.7	OK
24.002	133	29	116.508	-0.232	0.000	0.12		14.9	OK
22.004	122	30	116.123	-0.302	0.000	0.22		39.4	OK
22.005	123	30	116.063	-0.265	0.000	0.29		44.6	OK
25.000	139	28	116.737	-0.149	0.000	0.25		6.7	OK
25.001	140	29	116.624	-0.150	0.000	0.24		14.9	OK
22.006	124	30	116.014	-0.248	0.000	0.41		62.1	OK
22.007	125	30	115.800	-0.406	0.000	0.23		62.3	OK
22.008	126	31	115.621	-0.539	0.000	0.12		66.4	OK
22.009	127	31	115.577	-0.486	0.000	0.27		65.6	OK
21.002	149	32	115.420	-0.595	0.000	0.10		75.8	OK
1.020	20	31	114.445	0.891	0.000	4.24		281.1	SURCHARGED
1.021	108	31	114.108	0.563	0.000	1.10		275.9	SURCHARGED
1.022	21	31	114.002	0.593	0.000	1.08		274.2	SURCHARGED
1.023	22	30	113.872	0.651	0.000	1.12		274.4	SURCHARGED

M-EC		Page 232
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 1 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	28	119.322	-0.616	0.000	0.02		13.2	OK
26.001	90	28	118.998	-0.609	0.000	0.02		15.6	OK
27.000	200	28	119.558	-0.258	0.000	0.05		7.5	OK
27.001	109	28	118.836	-0.443	0.000	0.06		8.4	OK
26.002	91	28	118.598	-0.650	0.000	0.04		24.1	OK
28.000	TWD27	28	119.386	-0.231	0.000	0.12		15.4	OK
26.003	91A	28	118.462	-0.700	0.000	0.06		42.4	OK
26.004	92	28	118.387	-0.677	0.000	0.07		48.2	OK
26.005	93	28	118.311	-0.692	0.000	0.06		48.0	OK
29.000	TWD29	28	119.408	-0.157	0.000	0.20		7.0	OK
29.001	TWD30	28	119.243	-0.215	0.000	0.18		11.6	OK
29.002	TWD31	28	119.108	-0.240	0.000	0.09		15.5	OK
26.006	94	28	118.201	-0.665	0.000	0.08		63.6	OK
26.007	95	28	118.092	-0.663	0.000	0.09		65.8	OK
30.000	201	28	119.211	-0.230	0.000	0.12		10.2	OK
30.001	202	28	118.977	-0.213	0.000	0.19		13.9	OK
30.002	203	28	118.917	-0.184	0.000	0.32		23.9	OK
30.003	204	28	118.699	-0.284	0.000	0.13		28.1	OK
30.004	117	28	118.432	-0.239	0.000	0.29		29.8	OK
26.008	95A	28	117.980	-0.631	0.000	0.13		100.7	OK
26.009	96	28	117.787	-0.646	0.000	0.11		99.9	OK
26.010	97	28	117.380	-0.658	0.000	0.09		100.1	OK
31.000	121	28	117.031	-0.589	0.000	0.18		65.3	OK
32.000	TWD4	28	120.080	-0.181	0.000	0.08		4.1	OK
32.001	TWD5	28	119.882	-0.167	0.000	0.15		8.9	OK
33.000	TWD16	28	119.508	-0.203	0.000	0.23		14.9	OK
32.002	TWD6	28	119.337	-0.251	0.000	0.24		25.6	OK
34.000	TWD17	28	119.531	-0.176	0.000	0.11		5.6	OK
35.000	TWD18	28	119.460	-0.178	0.000	0.10		3.9	OK
32.003	TWD7	28	119.185	-0.255	0.000	0.22		37.3	OK
32.004	TWD8	28	118.677	-0.306	0.000	0.22		45.8	OK
32.005	TWD9	28	118.566	-0.285	0.000	0.29		48.8	OK
32.006	TWD10	28	118.517	-0.284	0.000	0.29		49.5	OK
36.000	TWD19	28	119.567	-0.154	0.000	0.22		14.8	OK
32.007	TWD11	28	117.399	-0.322	0.000	0.43		65.5	OK
37.000	TWD20	28	119.319	-0.167	0.000	0.15		5.7	OK
37.001	TWD21	28	119.053	-0.218	0.000	0.17		11.2	OK
37.002	TWD22	28	118.864	-0.202	0.000	0.23		15.7	OK
37.003	TWD23	28	118.597	-0.263	0.000	0.19		20.4	OK
37.004	TWD24	28	118.495	-0.291	0.000	0.11		23.8	OK
37.005	TWD25	28	118.009	-0.289	0.000	0.12		26.9	OK
32.008	TWD12	28	117.279	-0.421	0.000	0.28		97.8	OK
38.000	TWD26	28	119.265	-0.185	0.000	0.07		7.3	OK
32.009	TWD13	28	117.164	-0.451	0.000	0.24		106.1	OK
32.010	TWD14	28	117.104	-0.443	0.000	0.27		109.3	OK
32.011	TWD15	28	117.056	-0.439	0.000	0.36		113.7	OK
26.011	98	28	116.783	-0.805	0.000	0.12		269.6	OK
26.012	99	28	116.252	-0.768	0.000	0.16		270.3	OK
26.013	100	28	116.103	-0.626	0.000	0.34		269.3	OK



M-EC		Page 233
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		


Summary Wizard of 60 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	30	113.810	0.678	0.000	1.72		446.0	SURCHARGED
1.025	24	30	113.189	0.263	0.000	1.72		440.5	SURCHARGED
1.026	25	30	112.645	-0.144	0.000	0.69		439.6	OK
39.000	79	28	121.665	-0.508	0.000	0.01		3.2	OK
39.001	80	28	121.279	-0.480	0.000	0.02		8.7	OK
39.002	81	28	120.713	-0.614	0.000	0.02		10.7	OK
40.000	130	28	121.024	-0.177	0.000	0.10		3.5	OK
41.000	BAR1	28	121.697	-0.108	0.000	0.17		5.0	OK
41.001	131	28	120.876	-0.298	0.000	0.09		8.9	OK
39.003	81A	28	120.546	-0.588	0.000	0.04		24.7	OK
42.000	133	28	120.682	-0.264	0.000	0.03		1.9	OK
39.004	82	28	120.272	-0.633	0.000	0.06		31.1	OK
39.005	83	28	120.191	-0.644	0.000	0.05		30.9	OK
43.000	BAR2	28	121.526	-0.103	0.000	0.21		6.5	OK
43.001	136	28	120.411	-0.281	0.000	0.14		10.5	OK
39.006	83A	28	120.053	-0.617	0.000	0.07		44.3	OK
44.000	206	28	120.499	-0.358	0.000	0.06		6.8	OK
44.001	207	28	120.474	-0.345	0.000	0.07		8.5	OK
44.002	208	28	120.454	-0.322	0.000	0.10		14.1	OK
44.003	209	28	120.423	-0.282	0.000	0.15		14.1	OK
45.000	210	28	120.905	-0.180	0.000	0.09		3.9	OK
45.001	211	28	120.707	-0.235	0.000	0.11		7.1	OK
45.002	212	28	120.460	-0.296	0.000	0.10		10.7	OK
44.004	213	28	120.415	-0.267	0.000	0.31		31.8	OK
44.005	214	28	120.377	-0.269	0.000	0.25		33.2	OK
44.006	215	28	120.331	-0.250	0.000	0.41		38.5	OK
44.007	138	28	120.276	-0.281	0.000	0.30		38.4	OK
39.007	84	28	119.916	-0.609	0.000	0.15		90.0	OK
46.000	BAR4	28	121.559	-0.150	0.000	0.24		9.2	OK
46.001	BAR5	28	121.356	-0.132	0.000	0.36		12.9	OK
47.000	BAR6	28	122.049	-0.102	0.000	0.22		3.7	OK
47.001	BAR7	28	121.719	-0.152	0.000	0.23		8.4	OK
47.002	BAR8	28	121.570	-0.157	0.000	0.20		11.7	OK
46.002	BAR9	28	121.218	-0.161	0.000	0.44		27.3	OK
46.003	BAR10	28	121.094	-0.207	0.000	0.21		34.4	OK
46.004	140	28	120.209	-0.286	0.000	0.28		34.3	OK
39.008	85	28	119.863	-0.605	0.000	0.16		123.8	OK
39.009	86	28	119.729	-0.605	0.000	0.16		128.0	OK
48.000	BAR3	28	120.834	-0.114	0.000	0.13		4.4	OK
48.001	143	28	119.809	-0.365	0.000	0.08		9.1	OK
49.000	216	28	120.426	-0.244	0.000	0.08		13.7	OK
49.001	144	28	119.844	-0.351	0.000	0.11		14.5	OK
39.010	87	28	119.489	-0.663	0.000	0.16		149.8	OK
39.011	88	28	119.366	-0.641	0.000	0.18		174.2	OK
39.012	103	28	119.221	-0.630	0.000	0.20		187.7	OK
50.000	BAR11	28	121.347	-0.098	0.000	0.26		4.5	OK
50.001	BAR12	28	120.983	-0.155	0.000	0.21		10.8	OK
51.000	BAR13	28	120.787	-0.181	0.000	0.06		1.8	OK
50.002	BAR14	28	120.775	-0.144	0.000	0.28		15.1	OK

M-EC		Page 234
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	28	120.852	-0.099	0.000	0.25		4.2	OK
52.001	BAR16	28	120.563	-0.163	0.000	0.17		7.6	OK
50.003	BAR17	28	120.449	-0.169	0.000	0.40		24.3	OK
50.004	BAR18	28	120.378	-0.163	0.000	0.43		26.8	OK
50.005	BAR19	28	120.233	-0.216	0.000	0.17		30.1	OK
50.006	149	28	119.403	-0.322	0.000	0.18		30.1	OK
53.000	TWD1	28	120.431	-0.183	0.000	0.08		3.1	OK
54.000	TWD3	28	120.680	-0.202	0.000	0.02		1.9	OK
53.001	TWD2	28	120.070	-0.176	0.000	0.11		9.5	OK
39.013	104	28	119.040	-0.630	0.000	0.34		225.9	OK
39.014	104A	28	118.913	-0.722	0.000	0.20		224.5	OK
55.000	BAR20	28	121.403	-0.090	0.000	0.33		5.8	OK
55.001	BAR21	28	120.896	-0.157	0.000	0.20		10.8	OK
56.000	BAR22	28	120.458	-0.147	0.000	0.26		9.4	OK
56.001	BAR23	28	120.339	-0.130	0.000	0.37		12.1	OK
55.002	BAR24	28	120.224	-0.190	0.000	0.29		23.7	OK
55.003	BAR25	28	119.949	-0.245	0.000	0.26		27.8	OK
55.004	BAR26	28	119.822	-0.294	0.000	0.11		33.1	OK
39.015	105	28	118.740	-0.734	0.000	0.19		251.6	OK
39.016	106	28	118.570	-1.577	0.000	0.03		244.7	OK
39.017	107	28	115.901	-0.646	0.000	0.13		244.6	OK
1.027	26	27	112.224	-0.684	0.000	0.18		678.7	OK
1.028	27	28	109.401	-0.346	0.000	0.33		676.1	OK
1.029	28	28	106.460	-0.731	0.000	0.14		661.6	OK
1.030	29	28	97.505	-0.972	0.000	0.11		652.9	OK
1.031	30	28	92.947	-0.435	0.000	0.31		641.8	OK
1.032	31	31	91.814	-0.436	0.000	0.39		614.7	OK
1.033	32	32	91.322	-0.801	0.000	0.19		598.9	OK
1.034	33	49	90.207	-0.066	0.000	1.00		244.5	OK*
57.000	108	34	91.076	-0.810	0.000	0.21		334.9	OK
57.001	109	38	90.888	-0.998	0.000	0.15		278.5	OK
57.002	110	37	90.612	-1.274	0.000	0.09		220.5	OK
1.035	109	45	90.052	0.186	0.000	0.28		68.1	SURCHARGED*
1.036	34	8	86.650	0.000	0.000	0.66		55.3	SURCHARGED*

M-EC		Page 235
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	36	116.601	-0.254	0.000	0.06	4.5	OK
1.001	2	36	116.460	-0.249	0.000	0.07	5.9	OK
1.002	3	36	116.165	-0.323	0.000	0.05	5.9	OK
1.003	4	36	116.050	-0.297	0.000	0.10	17.1	OK
2.000	5	36	118.419	-0.256	0.000	0.05	5.9	OK
2.001	6	36	118.230	-0.231	0.000	0.12	12.6	OK
2.002	6	36	117.978	-0.235	0.000	0.11	14.3	OK
2.003	8	36	117.102	-0.246	0.000	0.08	18.0	OK
3.000	9.1	36	118.259	-0.166	0.000	0.16	8.2	OK
3.001	9	36	116.909	-0.236	0.000	0.10	8.2	OK
3.002	10	36	116.688	-0.295	0.000	0.10	10.9	OK
3.003	11	36	116.535	-0.347	0.000	0.12	20.8	OK
4.000	12	36	117.099	-0.187	0.000	0.07	6.8	OK
3.004	13	36	116.340	-0.420	0.000	0.09	27.6	OK
3.005	14	36	116.165	-0.388	0.000	0.15	37.6	OK
3.006	15	36	116.032	-0.433	0.000	0.17	38.4	OK
2.004	16	36	116.005	-0.438	0.000	0.16	56.2	OK
2.005	17	36	115.910	-0.443	0.000	0.15	63.8	OK
5.000	18	36	116.688	-0.199	0.000	0.03	3.8	OK
2.006	19	36	115.745	-0.434	0.000	0.17	70.2	OK
2.007	20	36	115.582	-0.425	0.000	0.19	74.2	OK
1.004	21	36	115.457	-0.391	0.000	0.26	91.1	OK

M-EC		Page 236
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 120 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	38	115.243	-0.544	0.000	0.17		103.6	OK
6.000	23	36	116.757	-0.173	0.000	0.12		5.5	OK
6.001	24	36	116.526	-0.167	0.000	0.15		5.5	OK
6.002	25	36	116.394	-0.231	0.000	0.12		8.9	OK
6.003	26	36	116.106	-0.209	0.000	0.20		12.1	OK
6.004	27	36	115.974	-0.282	0.000	0.14		17.5	OK
6.005	28	36	115.676	-0.307	0.000	0.07		17.4	OK
1.006	29	38	115.077	-0.553	0.000	0.16		130.0	OK
7.000	30	36	118.081	-0.179	0.000	0.09		3.6	OK
7.001	31	36	117.909	-0.186	0.000	0.07		8.2	OK
1.007	8	39	114.809	-0.532	0.000	0.19		139.7	OK
8.000	60	36	116.668	-0.188	0.000	0.06		2.5	OK
8.001	61	36	116.416	-0.268	0.000	0.03		2.8	OK
8.002	35	36	116.151	-0.277	0.000	0.02		4.1	OK
1.008	10	39	114.618	-0.461	0.000	0.43		143.8	OK
9.000	62	36	119.065	-0.235	0.000	0.11		8.9	OK
10.000	40	36	118.805	-0.163	0.000	0.43		26.3	OK
9.001	63	36	118.726	-0.253	0.000	0.23		38.6	OK
9.002	64	36	118.224	-0.294	0.000	0.11		49.0	OK
9.003	148	38	114.951	-0.315	0.000	0.20		50.3	OK
1.009	11	39	114.606	-0.454	0.000	0.27		195.9	OK
1.010	12	39	114.579	-0.397	0.000	0.53		199.0	OK
1.011	13	39	114.569	-0.385	0.000	0.46		199.9	OK
1.012	14	38	114.556	-0.365	0.000	0.21		200.3	OK
1.013	15	38	114.539	-0.331	0.000	0.44		199.2	OK
1.014	16	38	114.533	-0.314	0.000	0.21		193.9	OK
11.000	TWC16	36	117.666	-0.175	0.000	0.11		11.1	OK
11.001	TWC17	36	115.480	-0.180	0.000	0.09		11.1	OK
1.015	17	38	114.509	-0.361	0.000	0.13		192.5	OK
1.016	18	37	114.458	-0.309	0.000	0.12		163.2	OK
12.000	TWC1	36	117.623	-0.178	0.000	0.10		3.7	OK
12.001	TWC2	36	117.466	-0.170	0.000	0.14		5.3	OK
12.002	TWC3	36	117.230	-0.140	0.000	0.31		10.5	OK
12.003	TWC4	36	117.159	-0.138	0.000	0.32		10.5	OK
13.000	TWC5	36	118.126	-0.164	0.000	0.17		6.3	OK
13.001	TWC6	36	117.928	-0.140	0.000	0.31		11.4	OK
13.002	TWC7	36	117.741	-0.157	0.000	0.20		14.4	OK
12.004	TWC8	36	117.010	-0.232	0.000	0.29		27.6	OK
12.005	TWC9	36	116.945	-0.223	0.000	0.34		30.1	OK
12.006	TWC10	36	116.857	-0.263	0.000	0.19		31.1	OK
1.017	TWC11	38	114.407	-0.260	0.000	0.12		171.5	OK
1.018	19	38	114.357	-0.236	0.000	0.09		181.7	OK
14.000	TWC12	36	117.220	-0.189	0.000	0.06		2.2	OK
14.001	TWC13	36	117.053	-0.199	0.000	0.03		4.2	OK
14.002	TWC14	36	116.103	-0.176	0.000	0.11		8.4	OK
1.019	TWC15	39	114.301	-0.027	0.000	0.15		190.0	OK
15.000	65	36	117.141	-0.228	0.000	0.13		9.0	OK
16.000	136	36	118.021	-0.193	0.000	0.05		2.9	OK
16.001	137	36	117.716	-0.191	0.000	0.05		3.0	OK

M-EC		Page 237
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	36	117.459	-0.260	0.000	0.04		5.5	OK
15.001	66	36	116.912	-0.274	0.000	0.16		19.3	OK
15.002	67	36	116.780	-0.264	0.000	0.19		21.7	OK
17.000	9	36	117.297	-0.287	0.000	0.01		0.8	OK
17.001	75	36	117.147	-0.250	0.000	0.07		5.1	OK
17.002	76	36	116.750	-0.470	0.000	0.02		9.8	OK
15.003	68	36	116.554	-0.391	0.000	0.15		35.3	OK
15.004	69	36	116.373	-0.444	0.000	0.13		42.5	OK
15.005	70	36	116.302	-0.426	0.000	0.15		42.3	OK
15.006	71	36	116.265	-0.409	0.000	0.16		49.2	OK
18.000	147	36	116.777	-0.194	0.000	0.05		1.8	OK
18.001	112	36	116.603	-0.244	0.000	0.08		4.2	OK
18.002	113	36	116.426	-0.377	0.000	0.04		5.4	OK
19.000	115	36	117.293	-0.201	0.000	0.02		1.2	OK
19.001	116	36	117.035	-0.195	0.000	0.04		3.4	OK
18.003	77	36	116.384	-0.366	0.000	0.08		9.8	OK
20.000	134	36	117.238	-0.194	0.000	0.05		3.9	OK
18.004	135	36	116.309	-0.391	0.000	0.10		16.9	OK
18.005	78	36	116.260	-0.385	0.000	0.11		19.0	OK
15.007	72	36	116.228	-0.370	0.000	0.25		71.1	OK
15.008	73	36	116.139	-0.315	0.000	0.35		73.8	OK
15.009	74	36	116.096	-0.315	0.000	0.45		73.7	OK
15.010	98	36	116.007	-0.378	0.000	0.28		74.1	OK
15.011	99	36	115.890	-0.393	0.000	0.26		73.4	OK
15.012	101	36	115.709	-0.390	0.000	0.27		73.7	OK
21.000	142	36	117.111	-0.178	0.000	0.10		4.5	OK
21.001	143	36	116.692	-0.175	0.000	0.11		6.8	OK
22.000	118	36	117.091	-0.215	0.000	0.01		0.3	OK
22.001	119	36	117.033	-0.187	0.000	0.07		2.1	OK
22.002	120	36	116.984	-0.177	0.000	0.10		6.3	OK
23.000	129	36	116.617	-0.260	0.000	0.04		3.6	OK
23.001	130	36	116.482	-0.260	0.000	0.04		4.4	OK
22.003	121	36	116.288	-0.206	0.000	0.22		14.0	OK
24.000	131	36	116.911	-0.168	0.000	0.15		6.1	OK
24.001	132	36	116.641	-0.141	0.000	0.30		8.1	OK
24.002	133	36	116.494	-0.246	0.000	0.07		9.5	OK
22.004	122	36	116.088	-0.337	0.000	0.14		25.1	OK
22.005	123	36	116.022	-0.307	0.000	0.19		28.5	OK
25.000	139	36	116.720	-0.166	0.000	0.16		4.3	OK
25.001	140	36	116.608	-0.166	0.000	0.15		9.5	OK
22.006	124	36	115.970	-0.292	0.000	0.26		39.8	OK
22.007	125	36	115.759	-0.447	0.000	0.15		39.7	OK
22.008	126	36	115.573	-0.587	0.000	0.08		42.3	OK
22.009	127	36	115.522	-0.541	0.000	0.17		42.5	OK
21.002	149	36	115.386	-0.629	0.000	0.06		49.2	OK
1.020	20	39	114.187	0.633	0.000	3.77		250.0	SURCHARGED
1.021	108	38	113.834	0.289	0.000	1.00		250.5	SURCHARGED
1.022	21	38	113.729	0.320	0.000	0.98		250.6	SURCHARGED
1.023	22	38	113.596	0.375	0.000	1.04		253.5	SURCHARGED

M-EC		Page 238
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	36	119.300	-0.638	0.000	0.01		8.4	OK
26.001	90	36	118.974	-0.633	0.000	0.01		9.9	OK
27.000	200	36	119.550	-0.266	0.000	0.03		4.8	OK
27.001	109	36	118.819	-0.460	0.000	0.04		5.4	OK
26.002	91	36	118.580	-0.668	0.000	0.03		15.2	OK
28.000	TWD27	36	119.371	-0.246	0.000	0.08		9.7	OK
26.003	91A	36	118.437	-0.725	0.000	0.04		26.8	OK
26.004	92	36	118.354	-0.710	0.000	0.05		30.4	OK
26.005	93	36	118.283	-0.720	0.000	0.04		30.3	OK
29.000	TWD29	36	119.392	-0.173	0.000	0.12		4.4	OK
29.001	TWD30	36	119.225	-0.233	0.000	0.11		7.3	OK
29.002	TWD31	36	119.094	-0.254	0.000	0.06		9.8	OK
26.006	94	36	118.163	-0.703	0.000	0.05		40.4	OK
26.007	95	36	118.053	-0.702	0.000	0.05		41.4	OK
30.000	201	36	119.196	-0.245	0.000	0.08		6.5	OK
30.001	202	36	118.958	-0.232	0.000	0.12		8.8	OK
30.002	203	36	118.892	-0.209	0.000	0.20		15.2	OK
30.003	204	36	118.682	-0.301	0.000	0.09		17.9	OK
30.004	117	36	118.404	-0.267	0.000	0.18		18.9	OK
26.008	95A	36	117.942	-0.669	0.000	0.08		63.7	OK
26.009	96	36	117.748	-0.685	0.000	0.07		64.1	OK
26.010	97	36	117.340	-0.698	0.000	0.06		64.2	OK
31.000	121	36	116.980	-0.640	0.000	0.11		41.4	OK
32.000	TWD4	36	120.069	-0.192	0.000	0.05		2.6	OK
32.001	TWD5	36	119.870	-0.179	0.000	0.10		5.7	OK
33.000	TWD16	36	119.487	-0.224	0.000	0.14		9.4	OK
32.002	TWD6	36	119.310	-0.278	0.000	0.15		16.2	OK
34.000	TWD17	36	119.520	-0.187	0.000	0.07		3.5	OK
35.000	TWD18	36	119.449	-0.189	0.000	0.06		2.5	OK
32.003	TWD7	36	119.159	-0.281	0.000	0.14		23.8	OK
32.004	TWD8	36	118.646	-0.337	0.000	0.14		29.3	OK
32.005	TWD9	36	118.532	-0.319	0.000	0.18		31.2	OK
32.006	TWD10	36	118.483	-0.318	0.000	0.19		31.5	OK
36.000	TWD19	36	119.551	-0.170	0.000	0.14		9.4	OK
32.007	TWD11	36	117.337	-0.384	0.000	0.28		42.1	OK
37.000	TWD20	36	119.307	-0.179	0.000	0.09		3.6	OK
37.001	TWD21	36	119.036	-0.235	0.000	0.11		7.1	OK
37.002	TWD22	36	118.843	-0.223	0.000	0.15		10.1	OK
37.003	TWD23	36	118.573	-0.287	0.000	0.12		13.1	OK
37.004	TWD24	36	118.478	-0.308	0.000	0.07		15.3	OK
37.005	TWD25	36	117.992	-0.306	0.000	0.08		17.4	OK
32.008	TWD12	36	117.225	-0.475	0.000	0.18		62.6	OK
38.000	TWD26	36	119.256	-0.194	0.000	0.05		4.6	OK
32.009	TWD13	36	117.101	-0.514	0.000	0.16		69.2	OK
32.010	TWD14	36	117.040	-0.507	0.000	0.17		71.7	OK
32.011	TWD15	36	116.992	-0.503	0.000	0.24		74.8	OK
26.011	98	36	116.738	-0.850	0.000	0.08		178.3	OK
26.012	99	36	116.199	-0.821	0.000	0.11		178.3	OK
26.013	100	36	116.017	-0.712	0.000	0.23		177.2	OK

M-EC		Page 239
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 120 minute 1 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	37	113.529	0.397	0.000	1.47		382.2	SURCHARGED
1.025	24	37	113.079	0.153	0.000	1.49		380.6	SURCHARGED
1.026	25	37	112.624	-0.165	0.000	0.60		379.7	OK
39.000	79	36	121.659	-0.514	0.000	0.00		2.0	OK
39.001	80	36	121.263	-0.496	0.000	0.01		5.5	OK
39.002	81	36	120.691	-0.636	0.000	0.01		6.8	OK
40.000	130	36	121.014	-0.187	0.000	0.07		2.3	OK
41.000	BAR1	36	121.688	-0.117	0.000	0.11		3.2	OK
41.001	131	36	120.858	-0.316	0.000	0.06		5.7	OK
39.003	81A	36	120.532	-0.602	0.000	0.03		15.8	OK
42.000	133	36	120.676	-0.270	0.000	0.02		1.2	OK
39.004	82	36	120.249	-0.656	0.000	0.04		19.9	OK
39.005	83	36	120.172	-0.663	0.000	0.03		19.8	OK
43.000	BAR2	36	121.515	-0.114	0.000	0.13		4.1	OK
43.001	136	36	120.393	-0.299	0.000	0.09		6.7	OK
39.006	83A	36	120.024	-0.646	0.000	0.05		28.4	OK
44.000	206	36	120.475	-0.382	0.000	0.04		4.3	OK
44.001	207	36	120.449	-0.371	0.000	0.05		5.4	OK
44.002	208	36	120.424	-0.352	0.000	0.07		9.2	OK
44.003	209	36	120.385	-0.319	0.000	0.10		9.2	OK
45.000	210	36	120.894	-0.191	0.000	0.06		2.5	OK
45.001	211	36	120.693	-0.249	0.000	0.07		4.5	OK
45.002	212	36	120.442	-0.314	0.000	0.06		6.8	OK
44.004	213	36	120.377	-0.305	0.000	0.20		20.6	OK
44.005	214	36	120.338	-0.308	0.000	0.16		21.7	OK
44.006	215	36	120.289	-0.292	0.000	0.27		25.3	OK
44.007	138	36	120.243	-0.314	0.000	0.20		25.4	OK
39.007	84	36	119.875	-0.650	0.000	0.10		58.5	OK
46.000	BAR4	36	121.543	-0.166	0.000	0.15		5.8	OK
46.001	BAR5	36	121.336	-0.152	0.000	0.23		8.2	OK
47.000	BAR6	36	122.038	-0.113	0.000	0.14		2.4	OK
47.001	BAR7	36	121.703	-0.168	0.000	0.15		5.3	OK
47.002	BAR8	36	121.555	-0.172	0.000	0.13		7.5	OK
46.002	BAR9	36	121.187	-0.192	0.000	0.28		17.3	OK
46.003	BAR10	36	121.074	-0.227	0.000	0.13		21.9	OK
46.004	140	36	120.174	-0.321	0.000	0.18		21.9	OK
39.008	85	36	119.821	-0.647	0.000	0.10		80.1	OK
39.009	86	36	119.687	-0.647	0.000	0.10		83.8	OK
48.000	BAR3	36	120.827	-0.121	0.000	0.08		2.8	OK
48.001	143	36	119.789	-0.385	0.000	0.05		5.8	OK
49.000	216	36	120.413	-0.257	0.000	0.05		8.7	OK
49.001	144	36	119.822	-0.373	0.000	0.07		9.2	OK
39.010	87	36	119.444	-0.708	0.000	0.10		98.2	OK
39.011	88	36	119.314	-0.693	0.000	0.12		114.7	OK
39.012	103	36	119.165	-0.686	0.000	0.13		124.2	OK
50.000	BAR11	36	121.336	-0.109	0.000	0.17		2.9	OK
50.001	BAR12	36	120.968	-0.170	0.000	0.13		6.9	OK
51.000	BAR13	36	120.774	-0.194	0.000	0.04		1.1	OK
50.002	BAR14	36	120.758	-0.161	0.000	0.18		9.6	OK

M-EC		Page 240
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 120 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	36	120.841	-0.110	0.000	0.16		2.7	OK
52.001	BAR16	36	120.550	-0.176	0.000	0.11		4.8	OK
50.003	BAR17	36	120.420	-0.198	0.000	0.25		15.5	OK
50.004	BAR18	36	120.347	-0.194	0.000	0.27		17.1	OK
50.005	BAR19	36	120.215	-0.234	0.000	0.11		19.3	OK
50.006	149	36	119.376	-0.349	0.000	0.11		19.2	OK
53.000	TWD1	36	120.421	-0.193	0.000	0.05		1.9	OK
54.000	TWD3	36	120.672	-0.210	0.000	0.01		1.2	OK
53.001	TWD2	36	120.059	-0.187	0.000	0.07		6.1	OK
39.013	104	36	118.954	-0.716	0.000	0.22		149.2	OK
39.014	104A	36	118.847	-0.788	0.000	0.13		149.6	OK
55.000	BAR20	36	121.389	-0.104	0.000	0.21		3.7	OK
55.001	BAR21	36	120.881	-0.172	0.000	0.13		6.8	OK
56.000	BAR22	36	120.441	-0.164	0.000	0.16		5.9	OK
56.001	BAR23	36	120.318	-0.151	0.000	0.23		7.7	OK
55.002	BAR24	36	120.201	-0.213	0.000	0.18		15.0	OK
55.003	BAR25	36	119.921	-0.273	0.000	0.17		17.7	OK
55.004	BAR26	36	119.805	-0.311	0.000	0.07		21.1	OK
39.015	105	36	118.675	-0.799	0.000	0.12		168.5	OK
39.016	106	36	118.493	-1.654	0.000	0.02		168.3	OK
39.017	107	36	115.836	-0.711	0.000	0.09		168.1	OK
1.027	26	37	112.168	-0.740	0.000	0.14		544.2	OK
1.028	27	37	109.353	-0.394	0.000	0.26		545.8	OK
1.029	28	37	106.409	-0.782	0.000	0.12		537.9	OK
1.030	29	37	97.457	-1.020	0.000	0.09		539.3	OK
1.031	30	37	92.892	-0.490	0.000	0.26		533.0	OK
1.032	31	38	91.753	-0.497	0.000	0.34		525.9	OK
1.033	32	38	91.274	-0.849	0.000	0.17		519.5	OK
1.034	33	43	90.283	0.010	0.000	1.00		244.5	SURCHARGED*
57.000	108	42	90.944	-0.942	0.000	0.13		216.8	OK
57.001	109	44	90.781	-1.105	0.000	0.11		202.0	OK
57.002	110	43	90.548	-1.338	0.000	0.07		181.9	OK
1.035	109	42	90.155	0.289	0.000	0.26		63.1	SURCHARGED*
1.036	34	13	86.650	0.000	0.000	0.67		56.0	SURCHARGED*



M-EC		Page 241
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	42	116.591	-0.264	0.000	0.04	2.8	OK
1.001	2	42	116.448	-0.261	0.000	0.04	3.7	OK
1.002	3	42	116.155	-0.333	0.000	0.03	3.7	OK
1.003	4	42	116.031	-0.316	0.000	0.06	10.7	OK
2.000	5	42	118.410	-0.265	0.000	0.03	3.7	OK
2.001	6	42	118.215	-0.246	0.000	0.08	7.8	OK
2.002	6	42	117.963	-0.250	0.000	0.07	8.9	OK
2.003	8	42	117.090	-0.258	0.000	0.05	11.2	OK
3.000	9.1	42	118.247	-0.178	0.000	0.10	5.1	OK
3.001	9	42	116.894	-0.251	0.000	0.06	5.1	OK
3.002	10	42	116.669	-0.314	0.000	0.06	6.8	OK
3.003	11	42	116.512	-0.370	0.000	0.07	13.0	OK
4.000	12	42	117.090	-0.196	0.000	0.04	4.2	OK
3.004	13	42	116.314	-0.446	0.000	0.05	17.2	OK
3.005	14	42	116.137	-0.416	0.000	0.10	23.5	OK
3.006	15	42	115.996	-0.469	0.000	0.11	24.1	OK
2.004	16	42	115.970	-0.473	0.000	0.10	35.2	OK
2.005	17	42	115.877	-0.476	0.000	0.10	40.1	OK
5.000	18	42	116.683	-0.204	0.000	0.02	2.4	OK
2.006	19	42	115.709	-0.470	0.000	0.11	44.1	OK
2.007	20	42	115.543	-0.464	0.000	0.12	46.6	OK
1.004	21	42	115.411	-0.437	0.000	0.16	57.2	OK

M-EC		Page 242
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	42	115.199	-0.588	0.000	0.10		65.1	OK
6.000	23	42	116.746	-0.184	0.000	0.08		3.4	OK
6.001	24	42	116.514	-0.179	0.000	0.09		3.4	OK
6.002	25	42	116.379	-0.246	0.000	0.07		5.5	OK
6.003	26	42	116.085	-0.230	0.000	0.12		7.6	OK
6.004	27	42	115.955	-0.301	0.000	0.09		10.9	OK
6.005	28	42	115.660	-0.323	0.000	0.05		10.9	OK
1.006	29	42	115.037	-0.593	0.000	0.10		81.6	OK
7.000	30	42	118.070	-0.190	0.000	0.06		2.3	OK
7.001	31	42	117.900	-0.195	0.000	0.04		5.1	OK
1.007	8	42	114.761	-0.580	0.000	0.12		87.7	OK
8.000	60	42	116.660	-0.196	0.000	0.04		1.5	OK
8.001	61	42	116.407	-0.277	0.000	0.02		1.7	OK
8.002	35	42	116.142	-0.286	0.000	0.01		2.5	OK
1.008	10	42	114.512	-0.567	0.000	0.27		90.3	OK
9.000	62	42	119.050	-0.250	0.000	0.07		5.6	OK
10.000	40	42	118.773	-0.195	0.000	0.27		16.4	OK
9.001	63	42	118.698	-0.281	0.000	0.14		24.1	OK
9.002	64	42	118.206	-0.312	0.000	0.07		30.5	OK
9.003	148	42	114.920	-0.346	0.000	0.12		31.3	OK
1.009	11	42	114.479	-0.581	0.000	0.17		123.3	OK
1.010	12	42	114.434	-0.542	0.000	0.33		125.2	OK
1.011	13	42	114.383	-0.571	0.000	0.29		125.9	OK
1.012	14	42	114.216	-0.705	0.000	0.13		126.5	OK
1.013	15	42	114.195	-0.675	0.000	0.28		126.6	OK
1.014	16	43	114.064	-0.783	0.000	0.14		126.5	OK
11.000	TWC16	42	117.655	-0.186	0.000	0.07		6.9	OK
11.001	TWC17	42	115.469	-0.191	0.000	0.05		6.9	OK
1.015	17	43	114.001	-0.869	0.000	0.09		132.3	OK
1.016	18	43	113.956	-0.811	0.000	0.10		129.2	OK
12.000	TWC1	42	117.612	-0.189	0.000	0.06		2.3	OK
12.001	TWC2	42	117.455	-0.181	0.000	0.09		3.3	OK
12.002	TWC3	42	117.211	-0.159	0.000	0.19		6.6	OK
12.003	TWC4	42	117.140	-0.157	0.000	0.20		6.6	OK
13.000	TWC5	42	118.113	-0.177	0.000	0.10		3.9	OK
13.001	TWC6	42	117.909	-0.159	0.000	0.19		7.1	OK
13.002	TWC7	42	117.726	-0.172	0.000	0.13		9.0	OK
12.004	TWC8	42	116.978	-0.264	0.000	0.18		17.2	OK
12.005	TWC9	42	116.910	-0.258	0.000	0.21		18.9	OK
12.006	TWC10	42	116.831	-0.289	0.000	0.12		19.5	OK
1.017	TWC11	43	113.931	-0.736	0.000	0.10		144.4	OK
1.018	19	43	113.910	-0.683	0.000	0.07		142.1	OK
14.000	TWC12	42	117.212	-0.197	0.000	0.04		1.4	OK
14.001	TWC13	42	117.049	-0.203	0.000	0.02		2.6	OK
14.002	TWC14	42	116.091	-0.188	0.000	0.07		5.2	OK
1.019	TWC15	43	113.888	-0.440	0.000	0.12		145.2	OK
15.000	65	42	117.126	-0.243	0.000	0.08		5.6	OK
16.000	136	42	118.014	-0.200	0.000	0.03		1.8	OK
16.001	137	42	117.709	-0.198	0.000	0.03		1.9	OK

M-EC		Page 243
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	42	117.451	-0.268	0.000	0.03		3.4	OK
15.001	66	42	116.891	-0.295	0.000	0.10		12.0	OK
15.002	67	42	116.755	-0.289	0.000	0.12		13.5	OK
17.000	9	42	117.292	-0.292	0.000	0.01		0.5	OK
17.001	75	42	117.136	-0.261	0.000	0.04		3.2	OK
17.002	76	42	116.733	-0.487	0.000	0.02		6.1	OK
15.003	68	42	116.527	-0.418	0.000	0.09		22.1	OK
15.004	69	42	116.338	-0.479	0.000	0.08		26.7	OK
15.005	70	42	116.259	-0.469	0.000	0.09		26.6	OK
15.006	71	42	116.217	-0.457	0.000	0.10		31.0	OK
18.000	147	42	116.771	-0.200	0.000	0.03		1.1	OK
18.001	112	42	116.590	-0.257	0.000	0.05		2.6	OK
18.002	113	42	116.409	-0.394	0.000	0.03		3.4	OK
19.000	115	42	117.285	-0.209	0.000	0.02		0.7	OK
19.001	116	42	117.029	-0.201	0.000	0.03		2.1	OK
18.003	77	42	116.364	-0.386	0.000	0.05		6.1	OK
20.000	134	42	117.232	-0.200	0.000	0.03		2.4	OK
18.004	135	42	116.279	-0.421	0.000	0.06		10.6	OK
18.005	78	42	116.222	-0.423	0.000	0.07		12.1	OK
15.007	72	42	116.173	-0.425	0.000	0.16		45.0	OK
15.008	73	42	116.075	-0.379	0.000	0.22		47.1	OK
15.009	74	42	116.031	-0.380	0.000	0.29		47.1	OK
15.010	98	42	115.961	-0.424	0.000	0.18		47.2	OK
15.011	99	42	115.846	-0.437	0.000	0.17		47.0	OK
15.012	101	42	115.664	-0.435	0.000	0.17		47.1	OK
21.000	142	42	117.100	-0.189	0.000	0.06		2.8	OK
21.001	143	42	116.681	-0.186	0.000	0.07		4.2	OK
22.000	118	42	117.087	-0.219	0.000	0.01		0.2	OK
22.001	119	42	117.024	-0.196	0.000	0.04		1.3	OK
22.002	120	42	116.972	-0.189	0.000	0.06		3.9	OK
23.000	129	42	116.610	-0.267	0.000	0.03		2.2	OK
23.001	130	42	116.474	-0.268	0.000	0.03		2.7	OK
22.003	121	42	116.267	-0.227	0.000	0.13		8.7	OK
24.000	131	42	116.899	-0.179	0.000	0.09		3.8	OK
24.001	132	42	116.622	-0.160	0.000	0.18		5.0	OK
24.002	133	42	116.482	-0.259	0.000	0.05		5.9	OK
22.004	122	42	116.063	-0.362	0.000	0.09		15.6	OK
22.005	123	42	115.988	-0.340	0.000	0.12		17.8	OK
25.000	139	42	116.708	-0.178	0.000	0.10		2.7	OK
25.001	140	42	116.596	-0.178	0.000	0.10		5.9	OK
22.006	124	42	115.934	-0.328	0.000	0.17		24.9	OK
22.007	125	42	115.728	-0.478	0.000	0.09		24.8	OK
22.008	126	42	115.532	-0.627	0.000	0.05		26.5	OK
22.009	127	42	115.477	-0.586	0.000	0.11		26.6	OK
21.002	149	42	115.360	-0.655	0.000	0.04		30.8	OK
1.020	20	43	113.856	0.302	0.000	3.30		218.8	SURCHARGED
1.021	108	43	113.560	0.015	0.000	0.87		217.8	SURCHARGED
1.022	21	43	113.465	0.056	0.000	0.84		213.9	SURCHARGED
1.023	22	43	113.333	0.112	0.000	0.89		217.0	SURCHARGED

M-EC		Page 244
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	42	119.286	-0.652	0.000	0.01		5.2	OK
26.001	90	42	118.958	-0.649	0.000	0.01		6.1	OK
27.000	200	42	119.543	-0.273	0.000	0.02		3.0	OK
27.001	109	42	118.808	-0.471	0.000	0.02		3.3	OK
26.002	91	42	118.558	-0.690	0.000	0.02		9.5	OK
28.000	TWD27	42	119.358	-0.259	0.000	0.05		6.0	OK
26.003	91A	42	118.420	-0.742	0.000	0.02		16.7	OK
26.004	92	42	118.332	-0.732	0.000	0.03		19.0	OK
26.005	93	42	118.265	-0.738	0.000	0.02		18.9	OK
29.000	TWD29	42	119.381	-0.184	0.000	0.08		2.8	OK
29.001	TWD30	42	119.210	-0.248	0.000	0.07		4.6	OK
29.002	TWD31	42	119.084	-0.264	0.000	0.04		6.1	OK
26.006	94	42	118.138	-0.728	0.000	0.03		25.3	OK
26.007	95	42	118.028	-0.727	0.000	0.03		26.0	OK
30.000	201	42	119.183	-0.258	0.000	0.05		4.0	OK
30.001	202	42	118.943	-0.247	0.000	0.07		5.5	OK
30.002	203	42	118.871	-0.230	0.000	0.13		9.5	OK
30.003	204	42	118.663	-0.320	0.000	0.05		11.1	OK
30.004	117	42	118.380	-0.291	0.000	0.11		11.8	OK
26.008	95A	42	117.904	-0.707	0.000	0.05		39.9	OK
26.009	96	42	117.717	-0.716	0.000	0.04		40.0	OK
26.010	97	42	117.314	-0.724	0.000	0.04		40.1	OK
31.000	121	42	116.939	-0.681	0.000	0.07		25.7	OK
32.000	TWD4	42	120.062	-0.199	0.000	0.03		1.6	OK
32.001	TWD5	42	119.859	-0.190	0.000	0.06		3.5	OK
33.000	TWD16	42	119.471	-0.240	0.000	0.09		5.9	OK
32.002	TWD6	42	119.290	-0.298	0.000	0.09		10.1	OK
34.000	TWD17	42	119.512	-0.195	0.000	0.04		2.2	OK
35.000	TWD18	42	119.441	-0.197	0.000	0.04		1.6	OK
32.003	TWD7	42	119.140	-0.300	0.000	0.09		14.8	OK
32.004	TWD8	42	118.623	-0.360	0.000	0.09		18.3	OK
32.005	TWD9	42	118.502	-0.349	0.000	0.12		19.5	OK
32.006	TWD10	42	118.453	-0.348	0.000	0.12		19.7	OK
36.000	TWD19	42	119.540	-0.181	0.000	0.09		5.8	OK
32.007	TWD11	42	117.289	-0.432	0.000	0.17		26.3	OK
37.000	TWD20	42	119.296	-0.190	0.000	0.06		2.2	OK
37.001	TWD21	42	119.021	-0.250	0.000	0.07		4.4	OK
37.002	TWD22	42	118.827	-0.239	0.000	0.09		6.3	OK
37.003	TWD23	42	118.554	-0.306	0.000	0.08		8.2	OK
37.004	TWD24	42	118.462	-0.324	0.000	0.05		9.6	OK
37.005	TWD25	42	117.976	-0.322	0.000	0.05		10.9	OK
32.008	TWD12	42	117.178	-0.522	0.000	0.11		39.3	OK
38.000	TWD26	42	119.250	-0.200	0.000	0.03		2.9	OK
32.009	TWD13	42	117.048	-0.567	0.000	0.10		43.4	OK
32.010	TWD14	42	116.986	-0.561	0.000	0.11		45.1	OK
32.011	TWD15	42	116.937	-0.558	0.000	0.15		47.1	OK
26.011	98	42	116.690	-0.898	0.000	0.05		112.4	OK
26.012	99	42	116.148	-0.872	0.000	0.07		112.5	OK
26.013	100	42	115.943	-0.786	0.000	0.14		112.3	OK

M-EC		Page 245
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 240 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	43	113.266	0.134	0.000	1.20		310.3	SURCHARGED
1.025	24	43	112.972	0.046	0.000	1.21		309.7	SURCHARGED
1.026	25	43	112.598	-0.191	0.000	0.49		309.8	OK
39.000	79	42	121.655	-0.518	0.000	0.00		1.2	OK
39.001	80	42	121.252	-0.507	0.000	0.01		3.4	OK
39.002	81	42	120.676	-0.651	0.000	0.01		4.3	OK
40.000	130	42	121.006	-0.195	0.000	0.04		1.4	OK
41.000	BAR1	42	121.681	-0.124	0.000	0.07		2.0	OK
41.001	131	42	120.845	-0.329	0.000	0.04		3.5	OK
39.003	81A	42	120.511	-0.623	0.000	0.02		9.8	OK
42.000	133	42	120.666	-0.280	0.000	0.01		0.8	OK
39.004	82	42	120.233	-0.672	0.000	0.02		12.5	OK
39.005	83	42	120.155	-0.680	0.000	0.02		12.4	OK
43.000	BAR2	42	121.508	-0.121	0.000	0.08		2.6	OK
43.001	136	42	120.374	-0.318	0.000	0.06		4.1	OK
39.006	83A	42	120.004	-0.666	0.000	0.03		17.8	OK
44.000	206	42	120.459	-0.398	0.000	0.03		2.7	OK
44.001	207	42	120.428	-0.392	0.000	0.03		3.4	OK
44.002	208	42	120.398	-0.378	0.000	0.04		5.8	OK
44.003	209	42	120.354	-0.351	0.000	0.06		5.7	OK
45.000	210	42	120.887	-0.198	0.000	0.03		1.6	OK
45.001	211	42	120.682	-0.260	0.000	0.04		2.8	OK
45.002	212	42	120.429	-0.327	0.000	0.04		4.2	OK
44.004	213	42	120.344	-0.338	0.000	0.13		13.0	OK
44.005	214	42	120.305	-0.341	0.000	0.10		13.6	OK
44.006	215	42	120.254	-0.327	0.000	0.17		16.0	OK
44.007	138	42	120.212	-0.345	0.000	0.13		16.0	OK
39.007	84	42	119.834	-0.691	0.000	0.06		36.9	OK
46.000	BAR4	42	121.531	-0.178	0.000	0.10		3.6	OK
46.001	BAR5	42	121.319	-0.169	0.000	0.14		5.1	OK
47.000	BAR6	42	122.031	-0.120	0.000	0.09		1.5	OK
47.001	BAR7	42	121.692	-0.179	0.000	0.09		3.3	OK
47.002	BAR8	42	121.544	-0.183	0.000	0.08		4.6	OK
46.002	BAR9	42	121.163	-0.216	0.000	0.18		10.8	OK
46.003	BAR10	42	121.059	-0.242	0.000	0.08		13.6	OK
46.004	140	42	120.145	-0.350	0.000	0.11		13.6	OK
39.008	85	42	119.780	-0.688	0.000	0.07		50.5	OK
39.009	86	42	119.646	-0.688	0.000	0.07		52.6	OK
48.000	BAR3	42	120.820	-0.128	0.000	0.05		1.7	OK
48.001	143	42	119.776	-0.398	0.000	0.03		3.6	OK
49.000	216	42	120.404	-0.266	0.000	0.03		5.4	OK
49.001	144	42	119.804	-0.391	0.000	0.04		5.7	OK
39.010	87	42	119.400	-0.752	0.000	0.06		61.8	OK
39.011	88	42	119.270	-0.737	0.000	0.08		72.3	OK
39.012	103	42	119.122	-0.729	0.000	0.08		78.2	OK
50.000	BAR11	42	121.327	-0.118	0.000	0.10		1.8	OK
50.001	BAR12	42	120.956	-0.182	0.000	0.08		4.3	OK
51.000	BAR13	42	120.767	-0.201	0.000	0.02		0.7	OK
50.002	BAR14	42	120.744	-0.175	0.000	0.11		6.0	OK

M-EC		Page 246
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 240 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	42	120.832	-0.119	0.000	0.10		1.7	OK
52.001	BAR16	42	120.539	-0.187	0.000	0.07		3.0	OK
50.003	BAR17	42	120.397	-0.221	0.000	0.16		9.6	OK
50.004	BAR18	42	120.324	-0.217	0.000	0.17		10.7	OK
50.005	BAR19	42	120.200	-0.249	0.000	0.07		12.0	OK
50.006	149	42	119.354	-0.371	0.000	0.07		12.0	OK
53.000	TWD1	42	120.415	-0.199	0.000	0.03		1.2	OK
54.000	TWD3	42	120.666	-0.216	0.000	0.01		0.8	OK
53.001	TWD2	42	120.051	-0.195	0.000	0.04		3.8	OK
39.013	104	42	118.880	-0.790	0.000	0.14		94.0	OK
39.014	104A	42	118.796	-0.839	0.000	0.08		94.4	OK
55.000	BAR20	42	121.379	-0.114	0.000	0.13		2.3	OK
55.001	BAR21	42	120.870	-0.183	0.000	0.08		4.3	OK
56.000	BAR22	42	120.428	-0.177	0.000	0.10		3.7	OK
56.001	BAR23	42	120.301	-0.168	0.000	0.15		4.8	OK
55.002	BAR24	42	120.181	-0.233	0.000	0.11		9.3	OK
55.003	BAR25	42	119.899	-0.295	0.000	0.10		11.0	OK
55.004	BAR26	42	119.790	-0.326	0.000	0.04		13.2	OK
39.015	105	42	118.621	-0.853	0.000	0.08		107.2	OK
39.016	106	42	118.427	-1.720	0.000	0.01		107.1	OK
39.017	107	42	115.770	-0.777	0.000	0.06		107.1	OK
1.027	26	43	112.101	-0.807	0.000	0.11		408.0	OK
1.028	27	43	109.294	-0.453	0.000	0.20		408.5	OK
1.029	28	43	106.352	-0.839	0.000	0.09		407.9	OK
1.030	29	43	97.390	-1.087	0.000	0.07		407.9	OK
1.031	30	43	92.823	-0.559	0.000	0.20		407.3	OK
1.032	31	43	91.660	-0.590	0.000	0.26		404.6	OK
1.033	32	43	91.192	-0.931	0.000	0.13		403.2	OK
1.034	33	36	90.335	0.062	0.000	0.95		233.1	SURCHARGED*
57.000	108	46	90.817	-1.069	0.000	0.09		138.3	OK
57.001	109	46	90.657	-1.229	0.000	0.07		134.9	OK
57.002	110	46	90.457	-1.429	0.000	0.05		127.8	OK
1.035	109	34	90.244	0.378	0.000	0.25		60.1	SURCHARGED*
1.036	34	12	86.650	0.000	0.000	0.68		56.7	SURCHARGED*

M-EC		Page 247
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	47	116.587	-0.268	0.000	0.03	2.1	OK
1.001	2	47	116.444	-0.265	0.000	0.03	2.7	OK
1.002	3	47	116.151	-0.337	0.000	0.02	2.7	OK
1.003	4	47	116.023	-0.324	0.000	0.04	8.0	OK
2.000	5	47	118.406	-0.269	0.000	0.02	2.7	OK
2.001	6	47	118.207	-0.254	0.000	0.06	5.8	OK
2.002	6	47	117.956	-0.257	0.000	0.05	6.7	OK
2.003	8	47	117.084	-0.264	0.000	0.04	8.4	OK
3.000	9.1	47	118.240	-0.185	0.000	0.07	3.8	OK
3.001	9	47	116.887	-0.258	0.000	0.05	3.8	OK
3.002	10	47	116.660	-0.323	0.000	0.05	5.1	OK
3.003	11	47	116.500	-0.382	0.000	0.06	9.7	OK
4.000	12	47	117.087	-0.199	0.000	0.03	3.2	OK
3.004	13	47	116.303	-0.457	0.000	0.04	12.9	OK
3.005	14	47	116.120	-0.433	0.000	0.07	17.6	OK
3.006	15	47	115.978	-0.487	0.000	0.08	18.0	OK
2.004	16	47	115.952	-0.491	0.000	0.08	26.4	OK
2.005	17	47	115.858	-0.495	0.000	0.07	30.0	OK
5.000	18	47	116.678	-0.209	0.000	0.01	1.8	OK
2.006	19	47	115.691	-0.488	0.000	0.08	33.1	OK
2.007	20	47	115.526	-0.481	0.000	0.09	34.9	OK
1.004	21	47	115.387	-0.461	0.000	0.12	42.8	OK

M-EC		Page 248
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 1 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
1.005	22	47	115.176	-0.611	0.000	0.08		48.7	OK
6.000	23	47	116.739	-0.191	0.000	0.06		2.5	OK
6.001	24	47	116.507	-0.186	0.000	0.07		2.5	OK
6.002	25	47	116.370	-0.255	0.000	0.06		4.1	OK
6.003	26	47	116.076	-0.239	0.000	0.09		5.7	OK
6.004	27	47	115.943	-0.313	0.000	0.07		8.2	OK
6.005	28	47	115.653	-0.330	0.000	0.04		8.2	OK
1.006	29	47	115.013	-0.617	0.000	0.07		61.0	OK
7.000	30	47	118.065	-0.195	0.000	0.04		1.7	OK
7.001	31	47	117.896	-0.199	0.000	0.03		3.8	OK
1.007	8	47	114.740	-0.601	0.000	0.09		65.5	OK
8.000	60	47	116.656	-0.200	0.000	0.03		1.1	OK
8.001	61	47	116.401	-0.283	0.000	0.01		1.3	OK
8.002	35	47	116.139	-0.289	0.000	0.01		1.9	OK
1.008	10	47	114.463	-0.616	0.000	0.20		67.3	OK
9.000	62	47	119.043	-0.257	0.000	0.05		4.1	OK
10.000	40	47	118.758	-0.210	0.000	0.20		12.2	OK
9.001	63	47	118.685	-0.294	0.000	0.11		18.0	OK
9.002	64	47	118.196	-0.322	0.000	0.05		22.8	OK
9.003	148	47	114.907	-0.359	0.000	0.09		23.4	OK
1.009	11	47	114.430	-0.630	0.000	0.13		92.0	OK
1.010	12	47	114.381	-0.595	0.000	0.25		93.6	OK
1.011	13	47	114.337	-0.617	0.000	0.22		94.3	OK
1.012	14	47	114.165	-0.756	0.000	0.10		95.0	OK
1.013	15	47	114.143	-0.727	0.000	0.21		95.0	OK
1.014	16	47	114.021	-0.826	0.000	0.10		95.0	OK
11.000	TWC16	47	117.649	-0.192	0.000	0.05		5.1	OK
11.001	TWC17	47	115.464	-0.196	0.000	0.04		5.1	OK
1.015	17	48	113.927	-0.943	0.000	0.07		99.9	OK
1.016	18	48	113.847	-0.920	0.000	0.07		99.3	OK
12.000	TWC1	47	117.607	-0.194	0.000	0.05		1.7	OK
12.001	TWC2	47	117.448	-0.188	0.000	0.06		2.5	OK
12.002	TWC3	47	117.201	-0.169	0.000	0.14		4.9	OK
12.003	TWC4	47	117.129	-0.168	0.000	0.15		4.9	OK
13.000	TWC5	47	118.106	-0.184	0.000	0.08		2.9	OK
13.001	TWC6	47	117.899	-0.169	0.000	0.14		5.3	OK
13.002	TWC7	47	117.719	-0.179	0.000	0.09		6.7	OK
12.004	TWC8	47	116.961	-0.281	0.000	0.13		12.9	OK
12.005	TWC9	47	116.893	-0.275	0.000	0.16		14.1	OK
12.006	TWC10	47	116.821	-0.299	0.000	0.09		14.6	OK
1.017	TWC11	48	113.789	-0.878	0.000	0.08		113.1	OK
1.018	19	48	113.761	-0.832	0.000	0.05		112.9	OK
14.000	TWC12	47	117.209	-0.200	0.000	0.03		1.0	OK
14.001	TWC13	47	117.043	-0.209	0.000	0.02		1.9	OK
14.002	TWC14	47	116.086	-0.193	0.000	0.05		3.9	OK
1.019	TWC15	48	113.744	-0.584	0.000	0.09		116.3	OK
15.000	65	47	117.117	-0.252	0.000	0.06		4.2	OK
16.000	136	47	118.012	-0.202	0.000	0.02		1.3	OK
16.001	137	47	117.706	-0.201	0.000	0.03		1.4	OK



M-EC		Page 249
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 360 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	47	117.447	-0.272	0.000	0.02		2.6	OK
15.001	66	47	116.879	-0.307	0.000	0.08		9.0	OK
15.002	67	47	116.744	-0.300	0.000	0.09		10.1	OK
17.000	9	47	117.290	-0.294	0.000	0.00		0.4	OK
17.001	75	47	117.131	-0.266	0.000	0.03		2.4	OK
17.002	76	47	116.723	-0.497	0.000	0.01		4.5	OK
15.003	68	47	116.509	-0.436	0.000	0.07		16.5	OK
15.004	69	47	116.318	-0.499	0.000	0.06		20.0	OK
15.005	70	47	116.240	-0.488	0.000	0.07		20.0	OK
15.006	71	47	116.195	-0.479	0.000	0.07		23.2	OK
18.000	147	47	116.769	-0.202	0.000	0.02		0.8	OK
18.001	112	47	116.584	-0.263	0.000	0.04		1.9	OK
18.002	113	47	116.402	-0.401	0.000	0.02		2.5	OK
19.000	115	47	117.281	-0.213	0.000	0.01		0.5	OK
19.001	116	47	117.026	-0.204	0.000	0.02		1.6	OK
18.003	77	47	116.355	-0.395	0.000	0.04		4.6	OK
20.000	134	47	117.230	-0.202	0.000	0.02		1.8	OK
18.004	135	47	116.261	-0.439	0.000	0.05		7.9	OK
18.005	78	47	116.202	-0.443	0.000	0.05		9.1	OK
15.007	72	47	116.146	-0.452	0.000	0.12		33.6	OK
15.008	73	47	116.044	-0.410	0.000	0.17		35.4	OK
15.009	74	47	116.000	-0.411	0.000	0.22		35.4	OK
15.010	98	47	115.935	-0.450	0.000	0.13		35.5	OK
15.011	99	47	115.823	-0.460	0.000	0.12		35.4	OK
15.012	101	47	115.641	-0.458	0.000	0.13		35.4	OK
21.000	142	47	117.095	-0.194	0.000	0.05		2.1	OK
21.001	143	47	116.675	-0.192	0.000	0.05		3.2	OK
22.000	118	47	117.086	-0.220	0.000	0.00		0.1	OK
22.001	119	47	117.021	-0.199	0.000	0.03		1.0	OK
22.002	120	47	116.967	-0.194	0.000	0.05		2.9	OK
23.000	129	47	116.606	-0.271	0.000	0.02		1.7	OK
23.001	130	47	116.470	-0.272	0.000	0.02		2.0	OK
22.003	121	47	116.257	-0.237	0.000	0.10		6.5	OK
24.000	131	47	116.892	-0.187	0.000	0.07		2.8	OK
24.001	132	47	116.613	-0.170	0.000	0.14		3.7	OK
24.002	133	47	116.476	-0.264	0.000	0.03		4.4	OK
22.004	122	47	116.048	-0.376	0.000	0.06		11.7	OK
22.005	123	47	115.973	-0.356	0.000	0.09		13.3	OK
25.000	139	47	116.701	-0.185	0.000	0.07		2.0	OK
25.001	140	47	116.588	-0.186	0.000	0.07		4.4	OK
22.006	124	47	115.917	-0.345	0.000	0.12		18.6	OK
22.007	125	47	115.709	-0.498	0.000	0.07		18.6	OK
22.008	126	47	115.513	-0.646	0.000	0.04		19.9	OK
22.009	127	47	115.455	-0.608	0.000	0.08		19.8	OK
21.002	149	47	115.349	-0.666	0.000	0.03		23.0	OK
1.020	20	48	113.719	0.165	0.000	2.62		173.7	SURCHARGED
1.021	108	48	113.402	-0.143	0.000	0.69		173.4	OK
1.022	21	48	113.263	-0.146	0.000	0.68		173.6	OK
1.023	22	48	113.120	-0.101	0.000	0.71		173.9	OK

M-EC		Page 250
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 360 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	47	119.280	-0.658	0.000	0.01		3.9	OK
26.001	90	47	118.951	-0.656	0.000	0.01		4.6	OK
27.000	200	47	119.536	-0.280	0.000	0.01		2.2	OK
27.001	109	47	118.797	-0.482	0.000	0.02		2.5	OK
26.002	91	47	118.543	-0.705	0.000	0.01		7.1	OK
28.000	TWD27	47	119.353	-0.264	0.000	0.03		4.5	OK
26.003	91A	47	118.401	-0.761	0.000	0.02		12.4	OK
26.004	92	47	118.322	-0.742	0.000	0.02		14.2	OK
26.005	93	47	118.250	-0.753	0.000	0.02		14.2	OK
29.000	TWD29	47	119.375	-0.190	0.000	0.06		2.1	OK
29.001	TWD30	47	119.202	-0.256	0.000	0.05		3.4	OK
29.002	TWD31	47	119.080	-0.268	0.000	0.03		4.6	OK
26.006	94	47	118.128	-0.738	0.000	0.02		18.9	OK
26.007	95	47	118.018	-0.737	0.000	0.03		19.5	OK
30.000	201	47	119.178	-0.263	0.000	0.04		3.0	OK
30.001	202	47	118.935	-0.255	0.000	0.05		4.1	OK
30.002	203	47	118.863	-0.238	0.000	0.09		7.1	OK
30.003	204	47	118.656	-0.327	0.000	0.04		8.3	OK
30.004	117	47	118.369	-0.302	0.000	0.09		8.8	OK
26.008	95A	47	117.889	-0.722	0.000	0.04		30.0	OK
26.009	96	47	117.704	-0.729	0.000	0.03		29.9	OK
26.010	97	47	117.303	-0.735	0.000	0.03		29.9	OK
31.000	121	47	116.917	-0.703	0.000	0.05		19.2	OK
32.000	TWD4	47	120.060	-0.201	0.000	0.02		1.2	OK
32.001	TWD5	47	119.854	-0.195	0.000	0.04		2.6	OK
33.000	TWD16	47	119.462	-0.249	0.000	0.07		4.4	OK
32.002	TWD6	47	119.278	-0.310	0.000	0.07		7.6	OK
34.000	TWD17	47	119.508	-0.199	0.000	0.03		1.6	OK
35.000	TWD18	47	119.438	-0.200	0.000	0.03		1.2	OK
32.003	TWD7	47	119.128	-0.312	0.000	0.07		11.1	OK
32.004	TWD8	47	118.609	-0.374	0.000	0.07		13.7	OK
32.005	TWD9	47	118.490	-0.361	0.000	0.09		14.6	OK
32.006	TWD10	47	118.440	-0.361	0.000	0.09		14.8	OK
36.000	TWD19	47	119.533	-0.188	0.000	0.06		4.4	OK
32.007	TWD11	47	117.264	-0.457	0.000	0.13		19.7	OK
37.000	TWD20	47	119.291	-0.195	0.000	0.04		1.7	OK
37.001	TWD21	47	119.014	-0.257	0.000	0.05		3.3	OK
37.002	TWD22	47	118.818	-0.248	0.000	0.07		4.7	OK
37.003	TWD23	47	118.543	-0.317	0.000	0.06		6.1	OK
37.004	TWD24	47	118.456	-0.330	0.000	0.03		7.2	OK
37.005	TWD25	47	117.969	-0.329	0.000	0.04		8.1	OK
32.008	TWD12	47	117.158	-0.542	0.000	0.08		29.4	OK
38.000	TWD26	47	119.248	-0.202	0.000	0.02		2.1	OK
32.009	TWD13	47	117.023	-0.592	0.000	0.07		32.5	OK
32.010	TWD14	47	116.961	-0.586	0.000	0.08		33.7	OK
32.011	TWD15	47	116.912	-0.583	0.000	0.11		35.2	OK
26.011	98	47	116.670	-0.918	0.000	0.04		84.2	OK
26.012	99	47	116.122	-0.898	0.000	0.05		84.1	OK
26.013	100	47	115.908	-0.821	0.000	0.11		84.2	OK

M-EC		Page 251
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.024	23	48	113.062	-0.070	0.000	0.97		252.6	OK
1.025	24	48	112.864	-0.062	0.000	0.99		252.2	OK
1.026	25	48	112.577	-0.212	0.000	0.40		252.2	OK
39.000	79	47	121.653	-0.520	0.000	0.00		0.9	OK
39.001	80	47	121.247	-0.512	0.000	0.01		2.6	OK
39.002	81	47	120.670	-0.657	0.000	0.01		3.2	OK
40.000	130	47	121.002	-0.199	0.000	0.03		1.1	OK
41.000	BAR1	47	121.677	-0.128	0.000	0.05		1.5	OK
41.001	131	47	120.840	-0.334	0.000	0.03		2.6	OK
39.003	81A	47	120.498	-0.636	0.000	0.01		7.4	OK
42.000	133	47	120.661	-0.285	0.000	0.01		0.6	OK
39.004	82	47	120.217	-0.688	0.000	0.02		9.3	OK
39.005	83	47	120.137	-0.698	0.000	0.01		9.3	OK
43.000	BAR2	47	121.503	-0.126	0.000	0.06		1.9	OK
43.001	136	47	120.366	-0.326	0.000	0.04		3.1	OK
39.006	83A	47	119.996	-0.674	0.000	0.02		13.3	OK
44.000	206	47	120.453	-0.404	0.000	0.02		2.0	OK
44.001	207	47	120.420	-0.400	0.000	0.02		2.5	OK
44.002	208	47	120.387	-0.389	0.000	0.03		4.3	OK
44.003	209	47	120.339	-0.365	0.000	0.05		4.3	OK
45.000	210	47	120.884	-0.201	0.000	0.03		1.2	OK
45.001	211	47	120.677	-0.265	0.000	0.03		2.1	OK
45.002	212	47	120.423	-0.333	0.000	0.03		3.2	OK
44.004	213	47	120.329	-0.353	0.000	0.09		9.8	OK
44.005	214	47	120.290	-0.356	0.000	0.08		10.2	OK
44.006	215	47	120.237	-0.344	0.000	0.13		12.0	OK
44.007	138	47	120.199	-0.358	0.000	0.09		12.0	OK
39.007	84	47	119.815	-0.710	0.000	0.05		27.6	OK
46.000	BAR4	47	121.523	-0.186	0.000	0.07		2.7	OK
46.001	BAR5	47	121.312	-0.176	0.000	0.11		3.8	OK
47.000	BAR6	47	122.026	-0.125	0.000	0.06		1.1	OK
47.001	BAR7	47	121.684	-0.187	0.000	0.07		2.5	OK
47.002	BAR8	47	121.537	-0.190	0.000	0.06		3.5	OK
46.002	BAR9	47	121.151	-0.228	0.000	0.13		8.1	OK
46.003	BAR10	47	121.049	-0.252	0.000	0.06		10.2	OK
46.004	140	47	120.133	-0.362	0.000	0.08		10.2	OK
39.008	85	47	119.760	-0.708	0.000	0.05		37.8	OK
39.009	86	47	119.626	-0.708	0.000	0.05		39.4	OK
48.000	BAR3	47	120.817	-0.131	0.000	0.04		1.3	OK
48.001	143	47	119.771	-0.403	0.000	0.02		2.7	OK
49.000	216	47	120.401	-0.269	0.000	0.02		4.0	OK
49.001	144	47	119.797	-0.398	0.000	0.03		4.3	OK
39.010	87	47	119.379	-0.773	0.000	0.05		46.3	OK
39.011	88	47	119.245	-0.762	0.000	0.06		54.1	OK
39.012	103	47	119.095	-0.756	0.000	0.06		58.5	OK
50.000	BAR11	47	121.322	-0.123	0.000	0.08		1.3	OK
50.001	BAR12	47	120.949	-0.189	0.000	0.06		3.2	OK
51.000	BAR13	47	120.762	-0.206	0.000	0.02		0.5	OK
50.002	BAR14	47	120.737	-0.182	0.000	0.08		4.5	OK

M-EC		Page 252
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 360 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	47	120.828	-0.123	0.000	0.07		1.2	OK
52.001	BAR16	47	120.533	-0.193	0.000	0.05		2.2	OK
50.003	BAR17	47	120.386	-0.232	0.000	0.12		7.2	OK
50.004	BAR18	47	120.312	-0.229	0.000	0.13		8.0	OK
50.005	BAR19	47	120.193	-0.256	0.000	0.05		9.0	OK
50.006	149	47	119.341	-0.384	0.000	0.05		9.0	OK
53.000	TWD1	47	120.412	-0.202	0.000	0.02		0.9	OK
54.000	TWD3	47	120.664	-0.218	0.000	0.01		0.6	OK
53.001	TWD2	47	120.047	-0.199	0.000	0.03		2.8	OK
39.013	104	47	118.846	-0.824	0.000	0.11		70.3	OK
39.014	104A	47	118.763	-0.872	0.000	0.06		70.8	OK
55.000	BAR20	47	121.374	-0.119	0.000	0.10		1.7	OK
55.001	BAR21	47	120.863	-0.190	0.000	0.06		3.2	OK
56.000	BAR22	47	120.421	-0.184	0.000	0.08		2.8	OK
56.001	BAR23	47	120.293	-0.176	0.000	0.11		3.6	OK
55.002	BAR24	47	120.173	-0.241	0.000	0.09		7.0	OK
55.003	BAR25	47	119.888	-0.306	0.000	0.08		8.3	OK
55.004	BAR26	47	119.784	-0.332	0.000	0.03		9.9	OK
39.015	105	47	118.590	-0.884	0.000	0.06		80.6	OK
39.016	106	47	118.396	-1.751	0.000	0.01		80.6	OK
39.017	107	47	115.738	-0.809	0.000	0.04		80.5	OK
1.027	26	48	112.059	-0.849	0.000	0.09		329.3	OK
1.028	27	48	109.256	-0.491	0.000	0.16		329.1	OK
1.029	28	48	106.311	-0.880	0.000	0.07		329.4	OK
1.030	29	48	97.347	-1.130	0.000	0.06		329.4	OK
1.031	30	48	92.776	-0.606	0.000	0.16		328.8	OK
1.032	31	48	91.593	-0.657	0.000	0.21		328.5	OK
1.033	32	48	91.137	-0.986	0.000	0.10		328.0	OK
1.034	33	35	90.344	0.071	0.000	0.85		207.2	SURCHARGED*
57.000	108	49	90.745	-1.141	0.000	0.06		103.8	OK
57.001	109	49	90.593	-1.293	0.000	0.05		102.8	OK
57.002	110	49	90.388	-1.498	0.000	0.04		99.6	OK
1.035	109	31	90.286	0.420	0.000	0.24		57.0	SURCHARGED*
1.036	34	11	86.650	0.000	0.000	0.68		56.6	SURCHARGED*

M-EC		Page 253
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )		(l/s)	Flow (l/s)	
1.000	1	49	116.585	-0.270	0.000	0.02		1.7	OK
1.001	2	49	116.441	-0.268	0.000	0.03		2.2	OK
1.002	3	49	116.145	-0.343	0.000	0.02		2.2	OK
1.003	4	49	116.018	-0.329	0.000	0.04		6.5	OK
2.000	5	49	118.402	-0.273	0.000	0.02		2.2	OK
2.001	6	49	118.202	-0.259	0.000	0.05		4.7	OK
2.002	6	49	117.951	-0.262	0.000	0.04		5.4	OK
2.003	8	49	117.081	-0.267	0.000	0.03		6.8	OK
3.000	9.1	49	118.235	-0.190	0.000	0.06		3.1	OK
3.001	9	49	116.883	-0.262	0.000	0.04		3.1	OK
3.002	10	49	116.655	-0.328	0.000	0.04		4.1	OK
3.003	11	49	116.493	-0.389	0.000	0.04		7.9	OK
4.000	12	49	117.085	-0.201	0.000	0.03		2.6	OK
3.004	13	49	116.297	-0.463	0.000	0.03		10.4	OK
3.005	14	49	116.109	-0.444	0.000	0.06		14.2	OK
3.006	15	49	115.964	-0.501	0.000	0.06		14.6	OK
2.004	16	49	115.939	-0.504	0.000	0.06		21.4	OK
2.005	17	49	115.846	-0.507	0.000	0.06		24.3	OK
5.000	18	49	116.675	-0.212	0.000	0.01		1.4	OK
2.006	19	49	115.678	-0.501	0.000	0.06		26.8	OK
2.007	20	49	115.511	-0.496	0.000	0.07		28.3	OK
1.004	21	49	115.374	-0.474	0.000	0.10		34.7	OK

M-EC		Page 254
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	49	115.159	-0.628	0.000	0.06		39.5	OK
6.000	23	49	116.736	-0.194	0.000	0.05		2.1	OK
6.001	24	49	116.502	-0.191	0.000	0.06		2.1	OK
6.002	25	49	116.366	-0.259	0.000	0.04		3.4	OK
6.003	26	49	116.069	-0.246	0.000	0.07		4.6	OK
6.004	27	49	115.936	-0.320	0.000	0.05		6.6	OK
6.005	28	49	115.650	-0.333	0.000	0.03		6.6	OK
1.006	29	49	114.998	-0.632	0.000	0.06		49.6	OK
7.000	30	49	118.062	-0.198	0.000	0.03		1.4	OK
7.001	31	49	117.894	-0.201	0.000	0.03		3.1	OK
1.007	8	49	114.722	-0.619	0.000	0.07		53.2	OK
8.000	60	49	116.654	-0.202	0.000	0.02		0.9	OK
8.001	61	49	116.398	-0.286	0.000	0.01		1.1	OK
8.002	35	49	116.137	-0.291	0.000	0.01		1.5	OK
1.008	10	49	114.433	-0.646	0.000	0.16		54.7	OK
9.000	62	49	119.039	-0.261	0.000	0.04		3.4	OK
10.000	40	49	118.748	-0.220	0.000	0.16		9.9	OK
9.001	63	49	118.678	-0.301	0.000	0.09		14.6	OK
9.002	64	49	118.191	-0.327	0.000	0.04		18.5	OK
9.003	148	49	114.896	-0.370	0.000	0.07		19.0	OK
1.009	11	49	114.399	-0.661	0.000	0.10		74.8	OK
1.010	12	49	114.350	-0.626	0.000	0.20		75.9	OK
1.011	13	49	114.307	-0.647	0.000	0.18		76.3	OK
1.012	14	49	114.130	-0.791	0.000	0.08		76.8	OK
1.013	15	49	114.108	-0.762	0.000	0.17		76.9	OK
1.014	16	49	114.000	-0.847	0.000	0.08		77.0	OK
11.000	TWC16	49	117.646	-0.195	0.000	0.04		4.2	OK
11.001	TWC17	49	115.462	-0.198	0.000	0.03		4.2	OK
1.015	17	49	113.895	-0.975	0.000	0.06		81.1	OK
1.016	18	49	113.808	-0.959	0.000	0.06		81.1	OK
12.000	TWC1	49	117.604	-0.197	0.000	0.04		1.4	OK
12.001	TWC2	49	117.444	-0.192	0.000	0.05		2.0	OK
12.002	TWC3	49	117.196	-0.174	0.000	0.12		4.0	OK
12.003	TWC4	49	117.124	-0.173	0.000	0.12		4.0	OK
13.000	TWC5	49	118.101	-0.189	0.000	0.06		2.4	OK
13.001	TWC6	49	117.893	-0.175	0.000	0.12		4.3	OK
13.002	TWC7	49	117.714	-0.184	0.000	0.08		5.4	OK
12.004	TWC8	49	116.951	-0.291	0.000	0.11		10.4	OK
12.005	TWC9	49	116.882	-0.286	0.000	0.13		11.5	OK
12.006	TWC10	49	116.812	-0.308	0.000	0.07		11.8	OK
1.017	TWC11	49	113.731	-0.936	0.000	0.06		92.6	OK
1.018	19	49	113.691	-0.902	0.000	0.04		92.3	OK
14.000	TWC12	49	117.207	-0.202	0.000	0.02		0.8	OK
14.001	TWC13	49	117.040	-0.212	0.000	0.01		1.6	OK
14.002	TWC14	49	116.083	-0.196	0.000	0.04		3.1	OK
1.019	TWC15	49	113.676	-0.652	0.000	0.08		95.2	OK
15.000	65	49	117.111	-0.258	0.000	0.05		3.4	OK
16.000	136	49	118.008	-0.206	0.000	0.02		1.1	OK
16.001	137	49	117.704	-0.203	0.000	0.02		1.1	OK

M-EC		Page 255
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 1 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	49	117.442	-0.277	0.000	0.02		2.1	OK
15.001	66	49	116.871	-0.315	0.000	0.06		7.3	OK
15.002	67	49	116.735	-0.309	0.000	0.07		8.2	OK
17.000	9	49	117.289	-0.295	0.000	0.00		0.3	OK
17.001	75	49	117.129	-0.268	0.000	0.03		1.9	OK
17.002	76	49	116.718	-0.502	0.000	0.01		3.7	OK
15.003	68	49	116.499	-0.446	0.000	0.06		13.4	OK
15.004	69	49	116.306	-0.511	0.000	0.05		16.2	OK
15.005	70	49	116.226	-0.502	0.000	0.06		16.2	OK
15.006	71	49	116.180	-0.494	0.000	0.06		18.8	OK
18.000	147	49	116.765	-0.206	0.000	0.02		0.7	OK
18.001	112	49	116.581	-0.266	0.000	0.03		1.6	OK
18.002	113	49	116.399	-0.404	0.000	0.02		2.0	OK
19.000	115	49	117.279	-0.215	0.000	0.01		0.4	OK
19.001	116	49	117.022	-0.208	0.000	0.02		1.3	OK
18.003	77	49	116.351	-0.399	0.000	0.03		3.7	OK
20.000	134	49	117.225	-0.207	0.000	0.02		1.5	OK
18.004	135	49	116.251	-0.449	0.000	0.04		6.4	OK
18.005	78	49	116.191	-0.454	0.000	0.04		7.3	OK
15.007	72	49	116.130	-0.468	0.000	0.10		27.3	OK
15.008	73	49	116.024	-0.430	0.000	0.13		28.7	OK
15.009	74	49	115.980	-0.431	0.000	0.18		28.7	OK
15.010	98	49	115.921	-0.464	0.000	0.11		28.7	OK
15.011	99	49	115.810	-0.473	0.000	0.10		28.7	OK
15.012	101	49	115.628	-0.471	0.000	0.10		28.7	OK
21.000	142	49	117.092	-0.197	0.000	0.04		1.7	OK
21.001	143	49	116.672	-0.195	0.000	0.04		2.6	OK
22.000	118	49	117.085	-0.221	0.000	0.00		0.1	OK
22.001	119	49	117.019	-0.201	0.000	0.02		0.8	OK
22.002	120	49	116.964	-0.197	0.000	0.04		2.4	OK
23.000	129	49	116.600	-0.277	0.000	0.02		1.3	OK
23.001	130	49	116.465	-0.277	0.000	0.02		1.6	OK
22.003	121	49	116.251	-0.243	0.000	0.08		5.3	OK
24.000	131	49	116.887	-0.191	0.000	0.06		2.3	OK
24.001	132	49	116.607	-0.175	0.000	0.11		3.0	OK
24.002	133	49	116.473	-0.267	0.000	0.03		3.6	OK
22.004	122	49	116.040	-0.384	0.000	0.05		9.5	OK
22.005	123	49	115.963	-0.365	0.000	0.07		10.8	OK
25.000	139	49	116.696	-0.190	0.000	0.06		1.6	OK
25.001	140	49	116.584	-0.190	0.000	0.06		3.6	OK
22.006	124	49	115.907	-0.355	0.000	0.10		15.1	OK
22.007	125	49	115.697	-0.510	0.000	0.06		15.1	OK
22.008	126	49	115.501	-0.658	0.000	0.03		16.1	OK
22.009	127	49	115.437	-0.626	0.000	0.07		16.1	OK
21.002	149	49	115.343	-0.672	0.000	0.02		18.7	OK
1.020	20	49	113.654	0.100	0.000	2.14		142.1	SURCHARGED
1.021	108	49	113.373	-0.172	0.000	0.57		142.3	OK
1.022	21	49	113.235	-0.174	0.000	0.56		142.3	OK
1.023	22	49	113.076	-0.145	0.000	0.58		142.2	OK

M-EC		Page 256
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 480 minute 1 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	49	119.277	-0.661	0.000	0.00		3.1	OK
26.001	90	49	118.948	-0.659	0.000	0.00		3.7	OK
27.000	200	49	119.532	-0.284	0.000	0.01		1.8	OK
27.001	109	49	118.789	-0.490	0.000	0.01		2.0	OK
26.002	91	49	118.534	-0.714	0.000	0.01		5.7	OK
28.000	TWD27	49	119.350	-0.267	0.000	0.03		3.6	OK
26.003	91A	49	118.389	-0.773	0.000	0.01		10.1	OK
26.004	92	49	118.308	-0.756	0.000	0.02		11.5	OK
26.005	93	49	118.236	-0.767	0.000	0.01		11.5	OK
29.000	TWD29	49	119.371	-0.194	0.000	0.05		1.7	OK
29.001	TWD30	49	119.198	-0.260	0.000	0.04		2.8	OK
29.002	TWD31	49	119.078	-0.270	0.000	0.02		3.7	OK
26.006	94	49	118.119	-0.747	0.000	0.02		15.3	OK
26.007	95	49	118.010	-0.745	0.000	0.02		15.8	OK
30.000	201	49	119.175	-0.266	0.000	0.03		2.4	OK
30.001	202	49	118.930	-0.260	0.000	0.04		3.3	OK
30.002	203	49	118.855	-0.246	0.000	0.08		5.7	OK
30.003	204	49	118.652	-0.331	0.000	0.03		6.7	OK
30.004	117	49	118.360	-0.311	0.000	0.07		7.2	OK
26.008	95A	49	117.880	-0.731	0.000	0.03		24.3	OK
26.009	96	49	117.696	-0.737	0.000	0.03		24.2	OK
26.010	97	49	117.296	-0.742	0.000	0.02		24.2	OK
31.000	121	49	116.904	-0.716	0.000	0.04		15.5	OK
32.000	TWD4	49	120.057	-0.204	0.000	0.02		1.0	OK
32.001	TWD5	49	119.851	-0.198	0.000	0.04		2.1	OK
33.000	TWD16	49	119.456	-0.255	0.000	0.05		3.5	OK
32.002	TWD6	49	119.271	-0.317	0.000	0.06		6.1	OK
34.000	TWD17	49	119.506	-0.201	0.000	0.03		1.3	OK
35.000	TWD18	49	119.436	-0.202	0.000	0.02		0.9	OK
32.003	TWD7	49	119.121	-0.319	0.000	0.05		9.0	OK
32.004	TWD8	49	118.600	-0.383	0.000	0.05		11.1	OK
32.005	TWD9	49	118.479	-0.372	0.000	0.07		11.8	OK
32.006	TWD10	49	118.429	-0.372	0.000	0.07		12.0	OK
36.000	TWD19	49	119.529	-0.192	0.000	0.05		3.5	OK
32.007	TWD11	49	117.251	-0.470	0.000	0.11		16.0	OK
37.000	TWD20	49	119.288	-0.198	0.000	0.04		1.3	OK
37.001	TWD21	49	119.009	-0.262	0.000	0.04		2.7	OK
37.002	TWD22	49	118.812	-0.254	0.000	0.06		3.8	OK
37.003	TWD23	49	118.537	-0.323	0.000	0.05		5.0	OK
37.004	TWD24	49	118.452	-0.334	0.000	0.03		5.8	OK
37.005	TWD25	49	117.965	-0.333	0.000	0.03		6.6	OK
32.008	TWD12	49	117.142	-0.558	0.000	0.07		23.9	OK
38.000	TWD26	49	119.244	-0.206	0.000	0.02		1.7	OK
32.009	TWD13	49	117.008	-0.607	0.000	0.06		26.4	OK
32.010	TWD14	49	116.946	-0.601	0.000	0.07		27.3	OK
32.011	TWD15	49	116.897	-0.598	0.000	0.09		28.5	OK
26.011	98	49	116.659	-0.929	0.000	0.03		68.3	OK
26.012	99	49	116.106	-0.914	0.000	0.04		68.3	OK
26.013	100	49	115.888	-0.841	0.000	0.09		68.1	OK



M-EC		Page 257
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.024	23	49	113.014	-0.118	0.000	0.80		208.5	OK
1.025	24	49	112.812	-0.114	0.000	0.81		208.1	OK
1.026	25	49	112.560	-0.229	0.000	0.33		208.0	OK
39.000	79	49	121.652	-0.521	0.000	0.00		0.7	OK
39.001	80	49	121.245	-0.514	0.000	0.00		2.1	OK
39.002	81	49	120.667	-0.660	0.000	0.00		2.6	OK
40.000	130	49	121.000	-0.201	0.000	0.03		0.9	OK
41.000	BAR1	49	121.675	-0.130	0.000	0.04		1.2	OK
41.001	131	49	120.837	-0.337	0.000	0.02		2.1	OK
39.003	81A	49	120.490	-0.644	0.000	0.01		6.0	OK
42.000	133	49	120.658	-0.288	0.000	0.01		0.5	OK
39.004	82	49	120.205	-0.700	0.000	0.01		7.5	OK
39.005	83	49	120.127	-0.708	0.000	0.01		7.5	OK
43.000	BAR2	49	121.500	-0.129	0.000	0.05		1.6	OK
43.001	136	49	120.362	-0.330	0.000	0.03		2.5	OK
39.006	83A	49	119.983	-0.687	0.000	0.02		10.8	OK
44.000	206	49	120.448	-0.409	0.000	0.02		1.6	OK
44.001	207	49	120.415	-0.404	0.000	0.02		2.0	OK
44.002	208	49	120.380	-0.396	0.000	0.03		3.5	OK
44.003	209	49	120.330	-0.375	0.000	0.04		3.5	OK
45.000	210	49	120.882	-0.203	0.000	0.02		0.9	OK
45.001	211	49	120.674	-0.268	0.000	0.03		1.7	OK
45.002	212	49	120.420	-0.336	0.000	0.02		2.6	OK
44.004	213	49	120.320	-0.362	0.000	0.08		7.9	OK
44.005	214	49	120.280	-0.366	0.000	0.06		8.3	OK
44.006	215	49	120.226	-0.354	0.000	0.10		9.7	OK
44.007	138	49	120.189	-0.368	0.000	0.08		9.7	OK
39.007	84	49	119.803	-0.722	0.000	0.04		22.4	OK
46.000	BAR4	49	121.519	-0.190	0.000	0.06		2.2	OK
46.001	BAR5	49	121.307	-0.181	0.000	0.09		3.1	OK
47.000	BAR6	49	122.023	-0.128	0.000	0.05		0.9	OK
47.001	BAR7	49	121.680	-0.191	0.000	0.05		2.0	OK
47.002	BAR8	49	121.533	-0.194	0.000	0.05		2.8	OK
46.002	BAR9	49	121.144	-0.235	0.000	0.11		6.5	OK
46.003	BAR10	49	121.044	-0.257	0.000	0.05		8.3	OK
46.004	140	49	120.122	-0.373	0.000	0.07		8.3	OK
39.008	85	49	119.748	-0.720	0.000	0.04		30.7	OK
39.009	86	49	119.614	-0.720	0.000	0.04		31.9	OK
48.000	BAR3	49	120.815	-0.133	0.000	0.03		1.0	OK
48.001	143	49	119.765	-0.409	0.000	0.02		2.2	OK
49.000	216	49	120.397	-0.273	0.000	0.02		3.3	OK
49.001	144	49	119.793	-0.402	0.000	0.03		3.5	OK
39.010	87	49	119.366	-0.786	0.000	0.04		37.6	OK
39.011	88	49	119.230	-0.777	0.000	0.05		43.9	OK
39.012	103	49	119.079	-0.772	0.000	0.05		47.6	OK
50.000	BAR11	49	121.319	-0.126	0.000	0.06		1.1	OK
50.001	BAR12	49	120.945	-0.193	0.000	0.05		2.6	OK
51.000	BAR13	49	120.758	-0.210	0.000	0.01		0.4	OK
50.002	BAR14	49	120.732	-0.187	0.000	0.07		3.6	OK

M-EC		Page 258
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 480 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	49	120.825	-0.126	0.000	0.06		1.0	OK
52.001	BAR16	49	120.530	-0.196	0.000	0.04		1.8	OK
50.003	BAR17	49	120.380	-0.238	0.000	0.09		5.8	OK
50.004	BAR18	49	120.305	-0.236	0.000	0.10		6.5	OK
50.005	BAR19	49	120.188	-0.261	0.000	0.04		7.3	OK
50.006	149	49	119.335	-0.390	0.000	0.04		7.3	OK
53.000	TWD1	49	120.409	-0.205	0.000	0.02		0.7	OK
54.000	TWD3	49	120.663	-0.219	0.000	0.01		0.5	OK
53.001	TWD2	49	120.045	-0.201	0.000	0.03		2.3	OK
39.013	104	49	118.825	-0.845	0.000	0.09		57.1	OK
39.014	104A	49	118.743	-0.892	0.000	0.05		57.3	OK
55.000	BAR20	49	121.371	-0.122	0.000	0.08		1.4	OK
55.001	BAR21	49	120.859	-0.194	0.000	0.05		2.6	OK
56.000	BAR22	49	120.416	-0.189	0.000	0.06		2.2	OK
56.001	BAR23	49	120.289	-0.180	0.000	0.09		2.9	OK
55.002	BAR24	49	120.165	-0.249	0.000	0.07		5.7	OK
55.003	BAR25	49	119.880	-0.314	0.000	0.06		6.7	OK
55.004	BAR26	49	119.781	-0.335	0.000	0.03		8.0	OK
39.015	105	49	118.572	-0.902	0.000	0.05		65.2	OK
39.016	106	49	118.374	-1.773	0.000	0.01		65.4	OK
39.017	107	49	115.715	-0.832	0.000	0.03		65.4	OK
1.027	26	49	112.023	-0.885	0.000	0.07		272.3	OK
1.028	27	49	109.225	-0.522	0.000	0.13		272.1	OK
1.029	28	49	106.280	-0.911	0.000	0.06		272.1	OK
1.030	29	49	97.314	-1.163	0.000	0.05		272.4	OK
1.031	30	49	92.736	-0.646	0.000	0.13		272.3	OK
1.032	31	49	91.539	-0.711	0.000	0.17		271.6	OK
1.033	32	49	91.082	-1.041	0.000	0.09		271.3	OK
1.034	33	33	90.351	0.078	0.000	0.75		183.9	SURCHARGED*
57.000	108	50	90.696	-1.190	0.000	0.05		84.6	OK
57.001	109	50	90.541	-1.345	0.000	0.04		83.7	OK
57.002	110	50	90.342	-1.544	0.000	0.03		82.4	OK
1.035	109	30	90.287	0.421	0.000	0.26		62.6	SURCHARGED*
1.036	34	7	86.650	0.000	0.000	0.67		55.3	SURCHARGED*

M-EC		Page 259
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	52	116.573	-0.282	0.000	0.01	1.0	OK
1.001	2	52	116.431	-0.278	0.000	0.02	1.3	OK
1.002	3	52	116.132	-0.356	0.000	0.01	1.3	OK
1.003	4	52	116.010	-0.337	0.000	0.02	3.9	OK
2.000	5	52	118.391	-0.284	0.000	0.01	1.3	OK
2.001	6	52	118.194	-0.267	0.000	0.03	2.8	OK
2.002	6	52	117.944	-0.269	0.000	0.02	3.2	OK
2.003	8	52	117.072	-0.276	0.000	0.02	4.1	OK
3.000	9.1	52	118.227	-0.198	0.000	0.04	1.9	OK
3.001	9	52	116.876	-0.269	0.000	0.02	1.9	OK
3.002	10	52	116.647	-0.336	0.000	0.02	2.5	OK
3.003	11	52	116.481	-0.401	0.000	0.03	4.7	OK
4.000	12	52	117.077	-0.209	0.000	0.02	1.5	OK
3.004	13	52	116.284	-0.476	0.000	0.02	6.2	OK
3.005	14	52	116.091	-0.462	0.000	0.03	8.5	OK
3.006	15	52	115.941	-0.524	0.000	0.04	8.8	OK
2.004	16	52	115.917	-0.526	0.000	0.04	12.8	OK
2.005	17	52	115.825	-0.528	0.000	0.03	14.6	OK
5.000	18	52	116.670	-0.217	0.000	0.01	0.9	OK
2.006	19	52	115.655	-0.524	0.000	0.04	16.1	OK
2.007	20	52	115.486	-0.521	0.000	0.04	17.0	OK
1.004	21	52	115.343	-0.505	0.000	0.06	20.8	OK

M-EC		Page 260
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 960 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	52	115.131	-0.656	0.000	0.04		23.7	OK
6.000	23	52	116.730	-0.200	0.000	0.03		1.2	OK
6.001	24	52	116.495	-0.198	0.000	0.03		1.2	OK
6.002	25	52	116.358	-0.267	0.000	0.03		2.0	OK
6.003	26	52	116.056	-0.259	0.000	0.04		2.8	OK
6.004	27	52	115.924	-0.332	0.000	0.03		4.0	OK
6.005	28	52	115.638	-0.345	0.000	0.02		4.0	OK
1.006	29	52	114.971	-0.659	0.000	0.04		29.8	OK
7.000	30	52	118.057	-0.203	0.000	0.02		0.8	OK
7.001	31	52	117.887	-0.208	0.000	0.02		1.8	OK
1.007	8	52	114.690	-0.651	0.000	0.04		32.0	OK
8.000	60	52	116.646	-0.210	0.000	0.01		0.6	OK
8.001	61	52	116.392	-0.292	0.000	0.01		0.6	OK
8.002	35	52	116.133	-0.295	0.000	0.00		0.9	OK
1.008	10	52	114.374	-0.705	0.000	0.10		32.9	OK
9.000	62	52	119.031	-0.269	0.000	0.02		2.0	OK
10.000	40	52	118.730	-0.238	0.000	0.10		5.9	OK
9.001	63	52	118.659	-0.320	0.000	0.05		8.7	OK
9.002	64	52	118.182	-0.336	0.000	0.02		11.1	OK
9.003	148	52	114.877	-0.389	0.000	0.04		11.4	OK
1.009	11	52	114.341	-0.719	0.000	0.06		45.0	OK
1.010	12	52	114.285	-0.691	0.000	0.12		45.7	OK
1.011	13	52	114.248	-0.706	0.000	0.11		46.0	OK
1.012	14	52	114.067	-0.854	0.000	0.05		46.3	OK
1.013	15	52	114.042	-0.828	0.000	0.10		46.3	OK
1.014	16	52	113.948	-0.899	0.000	0.05		46.3	OK
11.000	TWC16	52	117.640	-0.201	0.000	0.03		2.5	OK
11.001	TWC17	52	115.456	-0.204	0.000	0.02		2.5	OK
1.015	17	52	113.835	-1.035	0.000	0.03		48.8	OK
1.016	18	52	113.738	-1.029	0.000	0.04		48.8	OK
12.000	TWC1	52	117.599	-0.202	0.000	0.02		0.8	OK
12.001	TWC2	52	117.437	-0.199	0.000	0.03		1.2	OK
12.002	TWC3	52	117.184	-0.186	0.000	0.07		2.4	OK
12.003	TWC4	52	117.112	-0.185	0.000	0.07		2.4	OK
13.000	TWC5	52	118.093	-0.197	0.000	0.04		1.4	OK
13.001	TWC6	52	117.881	-0.187	0.000	0.07		2.6	OK
13.002	TWC7	52	117.704	-0.194	0.000	0.05		3.3	OK
12.004	TWC8	52	116.931	-0.311	0.000	0.06		6.3	OK
12.005	TWC9	52	116.862	-0.306	0.000	0.08		6.9	OK
12.006	TWC10	52	116.795	-0.325	0.000	0.04		7.1	OK
1.017	TWC11	52	113.648	-1.019	0.000	0.04		55.9	OK
1.018	19	52	113.590	-1.003	0.000	0.03		55.9	OK
14.000	TWC12	52	117.198	-0.211	0.000	0.01		0.5	OK
14.001	TWC13	52	117.035	-0.217	0.000	0.01		0.9	OK
14.002	TWC14	52	116.077	-0.202	0.000	0.02		1.9	OK
1.019	TWC15	53	113.574	-0.754	0.000	0.05		57.7	OK
15.000	65	52	117.103	-0.266	0.000	0.03		2.0	OK
16.000	136	52	118.001	-0.213	0.000	0.01		0.6	OK
16.001	137	52	117.695	-0.212	0.000	0.01		0.7	OK

M-EC		Page 261
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
16.002	138	52	117.433	-0.286	0.000	0.01		1.2	OK
15.001	66	52	116.857	-0.329	0.000	0.04		4.4	OK
15.002	67	52	116.719	-0.325	0.000	0.04		4.9	OK
17.000	9	52	117.287	-0.297	0.000	0.00		0.2	OK
17.001	75	52	117.118	-0.279	0.000	0.02		1.2	OK
17.002	76	52	116.709	-0.511	0.000	0.01		2.2	OK
15.003	68	52	116.482	-0.463	0.000	0.03		8.0	OK
15.004	69	52	116.286	-0.531	0.000	0.03		9.7	OK
15.005	70	52	116.202	-0.526	0.000	0.03		9.7	OK
15.006	71	52	116.152	-0.522	0.000	0.04		11.3	OK
18.000	147	52	116.757	-0.214	0.000	0.01		0.4	OK
18.001	112	52	116.572	-0.275	0.000	0.02		0.9	OK
18.002	113	52	116.382	-0.421	0.000	0.01		1.2	OK
19.000	115	52	117.275	-0.219	0.000	0.01		0.3	OK
19.001	116	52	117.015	-0.215	0.000	0.01		0.8	OK
18.003	77	52	116.338	-0.412	0.000	0.02		2.2	OK
20.000	134	52	117.218	-0.214	0.000	0.01		0.9	OK
18.004	135	52	116.235	-0.465	0.000	0.02		3.9	OK
18.005	78	52	116.176	-0.469	0.000	0.03		4.4	OK
15.007	72	52	116.097	-0.501	0.000	0.06		16.4	OK
15.008	73	52	115.984	-0.470	0.000	0.08		17.3	OK
15.009	74	52	115.941	-0.470	0.000	0.11		17.3	OK
15.010	98	52	115.889	-0.496	0.000	0.06		17.3	OK
15.011	99	52	115.778	-0.505	0.000	0.06		17.3	OK
15.012	101	52	115.596	-0.503	0.000	0.06		17.3	OK
21.000	142	52	117.087	-0.202	0.000	0.02		1.0	OK
21.001	143	52	116.666	-0.201	0.000	0.03		1.5	OK
22.000	118	52	117.083	-0.223	0.000	0.00		0.1	OK
22.001	119	52	117.011	-0.209	0.000	0.01		0.5	OK
22.002	120	52	116.959	-0.202	0.000	0.02		1.4	OK
23.000	129	52	116.591	-0.286	0.000	0.01		0.8	OK
23.001	130	52	116.456	-0.286	0.000	0.01		1.0	OK
22.003	121	52	116.236	-0.258	0.000	0.05		3.2	OK
24.000	131	52	116.880	-0.199	0.000	0.03		1.4	OK
24.001	132	52	116.595	-0.187	0.000	0.07		1.8	OK
24.002	133	52	116.464	-0.276	0.000	0.02		2.1	OK
22.004	122	52	116.026	-0.398	0.000	0.03		5.7	OK
22.005	123	52	115.941	-0.387	0.000	0.04		6.5	OK
25.000	139	52	116.688	-0.198	0.000	0.04		1.0	OK
25.001	140	52	116.576	-0.198	0.000	0.03		2.1	OK
22.006	124	52	115.883	-0.379	0.000	0.06		9.0	OK
22.007	125	52	115.677	-0.529	0.000	0.03		9.0	OK
22.008	126	52	115.481	-0.678	0.000	0.02		9.7	OK
22.009	127	52	115.408	-0.655	0.000	0.04		9.7	OK
21.002	149	52	115.315	-0.700	0.000	0.01		11.2	OK
1.020	20	53	113.554	0.000	0.000	1.30		86.2	OK
1.021	108	52	113.321	-0.224	0.000	0.34		86.1	OK
1.022	21	52	113.183	-0.226	0.000	0.34		86.0	OK
1.023	22	52	113.009	-0.212	0.000	0.35		86.1	OK

M-EC		Page 262
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	52	119.271	-0.667	0.000	0.00		1.9	OK
26.001	90	52	118.941	-0.666	0.000	0.00		2.2	OK
27.000	200	52	119.526	-0.290	0.000	0.01		1.1	OK
27.001	109	52	118.775	-0.504	0.000	0.01		1.2	OK
26.002	91	52	118.520	-0.728	0.000	0.01		3.4	OK
28.000	TWD27	52	119.341	-0.276	0.000	0.02		2.2	OK
26.003	91A	52	118.368	-0.794	0.000	0.01		6.0	OK
26.004	92	52	118.280	-0.784	0.000	0.01		6.9	OK
26.005	93	52	118.213	-0.790	0.000	0.01		6.9	OK
29.000	TWD29	52	119.365	-0.200	0.000	0.03		1.0	OK
29.001	TWD30	52	119.190	-0.268	0.000	0.03		1.7	OK
29.002	TWD31	52	119.066	-0.282	0.000	0.01		2.2	OK
26.006	94	52	118.088	-0.778	0.000	0.01		9.2	OK
26.007	95	52	117.978	-0.777	0.000	0.01		9.5	OK
30.000	201	52	119.166	-0.275	0.000	0.02		1.5	OK
30.001	202	52	118.922	-0.268	0.000	0.03		2.0	OK
30.002	203	52	118.842	-0.259	0.000	0.05		3.4	OK
30.003	204	52	118.642	-0.341	0.000	0.02		4.0	OK
30.004	117	52	118.345	-0.326	0.000	0.04		4.3	OK
26.008	95A	52	117.857	-0.754	0.000	0.02		14.6	OK
26.009	96	52	117.668	-0.765	0.000	0.02		14.6	OK
26.010	97	52	117.264	-0.774	0.000	0.01		14.6	OK
31.000	121	52	116.883	-0.737	0.000	0.03		9.3	OK
32.000	TWD4	52	120.049	-0.212	0.000	0.01		0.6	OK
32.001	TWD5	52	119.847	-0.202	0.000	0.02		1.3	OK
33.000	TWD16	52	119.446	-0.265	0.000	0.03		2.1	OK
32.002	TWD6	52	119.258	-0.330	0.000	0.03		3.7	OK
34.000	TWD17	52	119.498	-0.209	0.000	0.02		0.8	OK
35.000	TWD18	52	119.428	-0.210	0.000	0.01		0.6	OK
32.003	TWD7	52	119.109	-0.331	0.000	0.03		5.4	OK
32.004	TWD8	52	118.586	-0.397	0.000	0.03		6.6	OK
32.005	TWD9	52	118.460	-0.391	0.000	0.04		7.1	OK
32.006	TWD10	52	118.410	-0.391	0.000	0.04		7.2	OK
36.000	TWD19	52	119.522	-0.199	0.000	0.03		2.1	OK
32.007	TWD11	52	117.219	-0.502	0.000	0.06		9.6	OK
37.000	TWD20	52	119.284	-0.202	0.000	0.02		0.8	OK
37.001	TWD21	52	119.002	-0.269	0.000	0.02		1.6	OK
37.002	TWD22	52	118.802	-0.264	0.000	0.03		2.3	OK
37.003	TWD23	52	118.526	-0.334	0.000	0.03		3.0	OK
37.004	TWD24	52	118.440	-0.346	0.000	0.02		3.5	OK
37.005	TWD25	52	117.954	-0.344	0.000	0.02		4.0	OK
32.008	TWD12	52	117.112	-0.588	0.000	0.04		14.3	OK
38.000	TWD26	52	119.236	-0.214	0.000	0.01		1.0	OK
32.009	TWD13	52	116.970	-0.645	0.000	0.04		15.8	OK
32.010	TWD14	52	116.907	-0.640	0.000	0.04		16.4	OK
32.011	TWD15	52	116.857	-0.638	0.000	0.05		17.2	OK
26.011	98	52	116.631	-0.957	0.000	0.02		41.0	OK
26.012	99	52	116.081	-0.939	0.000	0.02		41.0	OK
26.013	100	52	115.833	-0.896	0.000	0.05		41.0	OK

M-EC		Page 263
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 1 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
1.024	23	52	112.942	-0.190	0.000	0.49		126.8	OK
1.025	24	52	112.738	-0.188	0.000	0.50		127.0	OK
1.026	25	52	112.525	-0.264	0.000	0.20		127.1	OK
39.000	79	52	121.650	-0.523	0.000	0.00		0.4	OK
39.001	80	52	121.240	-0.519	0.000	0.00		1.2	OK
39.002	81	52	120.661	-0.666	0.000	0.00		1.5	OK
40.000	130	52	120.992	-0.209	0.000	0.02		0.5	OK
41.000	BAR1	52	121.671	-0.134	0.000	0.02		0.7	OK
41.001	131	52	120.823	-0.351	0.000	0.01		1.3	OK
39.003	81A	52	120.478	-0.656	0.000	0.01		3.6	OK
42.000	133	52	120.653	-0.293	0.000	0.01		0.3	OK
39.004	82	52	120.185	-0.720	0.000	0.01		4.5	OK
39.005	83	52	120.110	-0.725	0.000	0.01		4.5	OK
43.000	BAR2	52	121.496	-0.133	0.000	0.03		0.9	OK
43.001	136	52	120.353	-0.339	0.000	0.02		1.5	OK
39.006	83A	52	119.958	-0.712	0.000	0.01		6.5	OK
44.000	206	52	120.432	-0.425	0.000	0.01		1.0	OK
44.001	207	52	120.400	-0.420	0.000	0.01		1.2	OK
44.002	208	52	120.368	-0.408	0.000	0.02		2.1	OK
44.003	209	52	120.309	-0.395	0.000	0.02		2.1	OK
45.000	210	52	120.873	-0.212	0.000	0.01		0.6	OK
45.001	211	52	120.664	-0.278	0.000	0.02		1.0	OK
45.002	212	52	120.406	-0.350	0.000	0.01		1.5	OK
44.004	213	52	120.297	-0.385	0.000	0.05		4.7	OK
44.005	214	52	120.258	-0.388	0.000	0.04		5.0	OK
44.006	215	52	120.203	-0.378	0.000	0.06		5.8	OK
44.007	138	52	120.168	-0.389	0.000	0.05		5.8	OK
39.007	84	52	119.785	-0.740	0.000	0.02		13.5	OK
46.000	BAR4	52	121.511	-0.198	0.000	0.03		1.3	OK
46.001	BAR5	52	121.296	-0.192	0.000	0.05		1.9	OK
47.000	BAR6	52	122.018	-0.133	0.000	0.03		0.5	OK
47.001	BAR7	52	121.672	-0.199	0.000	0.03		1.2	OK
47.002	BAR8	52	121.527	-0.200	0.000	0.03		1.7	OK
46.002	BAR9	52	121.128	-0.251	0.000	0.06		3.9	OK
46.003	BAR10	52	121.035	-0.266	0.000	0.03		5.0	OK
46.004	140	52	120.103	-0.392	0.000	0.04		5.0	OK
39.008	85	52	119.729	-0.739	0.000	0.02		18.4	OK
39.009	86	52	119.595	-0.739	0.000	0.02		19.2	OK
48.000	BAR3	52	120.811	-0.137	0.000	0.02		0.6	OK
48.001	143	52	119.749	-0.425	0.000	0.01		1.3	OK
49.000	216	52	120.386	-0.284	0.000	0.01		2.0	OK
49.001	144	52	119.778	-0.417	0.000	0.02		2.1	OK
39.010	87	52	119.345	-0.807	0.000	0.02		22.6	OK
39.011	88	52	119.206	-0.801	0.000	0.03		26.4	OK
39.012	103	52	119.053	-0.798	0.000	0.03		28.6	OK
50.000	BAR11	52	121.314	-0.131	0.000	0.04		0.6	OK
50.001	BAR12	52	120.939	-0.199	0.000	0.03		1.6	OK
51.000	BAR13	52	120.752	-0.216	0.000	0.01		0.3	OK
50.002	BAR14	52	120.723	-0.196	0.000	0.04		2.2	OK

M-EC		Page 264
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 960 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	52	120.819	-0.132	0.000	0.04		0.6	OK
52.001	BAR16	52	120.525	-0.201	0.000	0.02		1.1	OK
50.003	BAR17	52	120.364	-0.254	0.000	0.06		3.5	OK
50.004	BAR18	52	120.289	-0.252	0.000	0.06		3.9	OK
50.005	BAR19	52	120.181	-0.268	0.000	0.02		4.4	OK
50.006	149	52	119.323	-0.402	0.000	0.03		4.4	OK
53.000	TWD1	52	120.401	-0.213	0.000	0.01		0.4	OK
54.000	TWD3	52	120.660	-0.222	0.000	0.00		0.3	OK
53.001	TWD2	52	120.037	-0.209	0.000	0.02		1.4	OK
39.013	104	52	118.772	-0.898	0.000	0.05		34.3	OK
39.014	104A	52	118.709	-0.926	0.000	0.03		34.5	OK
55.000	BAR20	52	121.364	-0.129	0.000	0.05		0.8	OK
55.001	BAR21	52	120.853	-0.200	0.000	0.03		1.5	OK
56.000	BAR22	52	120.408	-0.197	0.000	0.04		1.3	OK
56.001	BAR23	52	120.277	-0.192	0.000	0.05		1.7	OK
55.002	BAR24	52	120.153	-0.261	0.000	0.04		3.4	OK
55.003	BAR25	52	119.866	-0.328	0.000	0.04		4.0	OK
55.004	BAR26	52	119.768	-0.348	0.000	0.02		4.8	OK
39.015	105	52	118.541	-0.933	0.000	0.03		39.3	OK
39.016	106	52	118.329	-1.818	0.000	0.01		39.3	OK
39.017	107	52	115.672	-0.875	0.000	0.02		39.3	OK
1.027	26	52	111.949	-0.959	0.000	0.04		166.2	OK
1.028	27	52	109.159	-0.588	0.000	0.08		166.3	OK
1.029	28	52	106.212	-0.979	0.000	0.04		166.3	OK
1.030	29	52	97.236	-1.241	0.000	0.03		166.3	OK
1.031	30	52	92.652	-0.730	0.000	0.08		166.2	OK
1.032	31	52	91.412	-0.838	0.000	0.11		165.6	OK
1.033	32	52	90.972	-1.151	0.000	0.05		165.9	OK
1.034	33	37	90.333	0.060	0.000	0.53		129.2	SURCHARGED*
57.000	108	52	90.589	-1.297	0.000	0.03		51.0	OK
57.001	109	52	90.443	-1.443	0.000	0.03		50.7	OK
57.002	110	52	90.267	-1.619	0.000	0.02		50.6	OK
1.035	109	32	90.250	0.384	0.000	0.24		58.3	SURCHARGED*
1.036	34	3	86.650	0.000	0.000	0.66		54.8	SURCHARGED*



M-EC		Page 265
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 1 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000    Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0    MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0    Inlet Coefficient 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 4  
Number of Online Controls 1    Number of Time/Area Diagrams 0  
Number of Offline Controls 0    Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)    19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0    DVD Status ON  
Analysis Timestep    Fine Inertia Status OFF  
DTS Status    ON


Profile(s)    Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)    1, 30, 100  
Climate Change (%)    0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )		(l/s)	Flow (l/s)	
1.000	1	54	116.569	-0.286	0.000	0.01	0.8	OK	
1.001	2	54	116.425	-0.284	0.000	0.01	1.0	OK	
1.002	3	54	116.127	-0.361	0.000	0.01	1.0	OK	
1.003	4	54	116.001	-0.346	0.000	0.02	2.9	OK	
2.000	5	54	118.387	-0.288	0.000	0.01	1.0	OK	
2.001	6	54	118.190	-0.271	0.000	0.02	2.1	OK	
2.002	6	54	117.938	-0.275	0.000	0.02	2.4	OK	
2.003	8	54	117.066	-0.282	0.000	0.01	3.0	OK	
3.000	9.1	54	118.224	-0.201	0.000	0.03	1.4	OK	
3.001	9	54	116.869	-0.276	0.000	0.02	1.4	OK	
3.002	10	54	116.638	-0.345	0.000	0.02	1.8	OK	
3.003	11	54	116.474	-0.408	0.000	0.02	3.5	OK	
4.000	12	54	117.073	-0.213	0.000	0.01	1.1	OK	
3.004	13	54	116.272	-0.488	0.000	0.01	4.6	OK	
3.005	14	54	116.084	-0.469	0.000	0.03	6.3	OK	
3.006	15	54	115.932	-0.533	0.000	0.03	6.5	OK	
2.004	16	54	115.909	-0.534	0.000	0.03	9.5	OK	
2.005	17	54	115.817	-0.536	0.000	0.03	10.8	OK	
5.000	18	54	116.668	-0.219	0.000	0.01	0.6	OK	
2.006	19	54	115.646	-0.533	0.000	0.03	11.9	OK	
2.007	20	54	115.476	-0.531	0.000	0.03	12.6	OK	
1.004	21	54	115.329	-0.519	0.000	0.04	15.5	OK	

M-EC		Page 266
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe Flow (l/s)	Status
1.005	22	54	115.120	-0.667	0.000	0.03		17.6	OK
6.000	23	54	116.727	-0.203	0.000	0.02		0.9	OK
6.001	24	54	116.492	-0.201	0.000	0.02		0.9	OK
6.002	25	54	116.353	-0.272	0.000	0.02		1.5	OK
6.003	26	54	116.050	-0.265	0.000	0.03		2.0	OK
6.004	27	54	115.920	-0.336	0.000	0.02		3.0	OK
6.005	28	54	115.631	-0.352	0.000	0.01		3.0	OK
1.006	29	54	114.961	-0.669	0.000	0.03		22.1	OK
7.000	30	54	118.052	-0.208	0.000	0.02		0.6	OK
7.001	31	54	117.882	-0.213	0.000	0.01		1.4	OK
1.007	8	54	114.678	-0.663	0.000	0.03		23.7	OK
8.000	60	54	116.642	-0.214	0.000	0.01		0.4	OK
8.001	61	54	116.390	-0.294	0.000	0.00		0.5	OK
8.002	35	54	116.132	-0.296	0.000	0.00		0.7	OK
1.008	10	54	114.346	-0.733	0.000	0.07		24.4	OK
9.000	62	54	119.026	-0.274	0.000	0.02		1.5	OK
10.000	40	54	118.720	-0.248	0.000	0.07		4.4	OK
9.001	63	54	118.651	-0.328	0.000	0.04		6.5	OK
9.002	64	54	118.175	-0.343	0.000	0.02		8.2	OK
9.003	148	54	114.869	-0.397	0.000	0.03		8.4	OK
1.009	11	54	114.312	-0.748	0.000	0.05		33.4	OK
1.010	12	54	114.258	-0.718	0.000	0.09		33.9	OK
1.011	13	54	114.221	-0.733	0.000	0.08		34.1	OK
1.012	14	54	114.035	-0.886	0.000	0.04		34.4	OK
1.013	15	54	114.009	-0.861	0.000	0.08		34.4	OK
1.014	16	54	113.927	-0.920	0.000	0.04		34.4	OK
11.000	TWC16	54	117.636	-0.205	0.000	0.02		1.9	OK
11.001	TWC17	54	115.451	-0.209	0.000	0.01		1.9	OK
1.015	17	54	113.812	-1.058	0.000	0.03		36.2	OK
1.016	18	54	113.711	-1.056	0.000	0.03		36.2	OK
12.000	TWC1	54	117.594	-0.207	0.000	0.02		0.6	OK
12.001	TWC2	54	117.434	-0.202	0.000	0.02		0.9	OK
12.002	TWC3	54	117.178	-0.192	0.000	0.05		1.8	OK
12.003	TWC4	54	117.105	-0.192	0.000	0.05		1.8	OK
13.000	TWC5	54	118.090	-0.200	0.000	0.03		1.1	OK
13.001	TWC6	54	117.876	-0.192	0.000	0.05		1.9	OK
13.002	TWC7	54	117.700	-0.198	0.000	0.03		2.4	OK
12.004	TWC8	54	116.921	-0.321	0.000	0.05		4.7	OK
12.005	TWC9	54	116.851	-0.317	0.000	0.06		5.1	OK
12.006	TWC10	54	116.789	-0.331	0.000	0.03		5.3	OK
1.017	TWC11	54	113.611	-1.056	0.000	0.03		41.5	OK
1.018	19	54	113.528	-1.065	0.000	0.02		41.5	OK
14.000	TWC12	54	117.195	-0.214	0.000	0.01		0.4	OK
14.001	TWC13	54	117.033	-0.219	0.000	0.01		0.7	OK
14.002	TWC14	54	116.073	-0.206	0.000	0.02		1.4	OK
1.019	TWC15	54	113.486	-0.842	0.000	0.03		42.8	OK
15.000	65	54	117.099	-0.270	0.000	0.02		1.5	OK
16.000	136	54	117.998	-0.216	0.000	0.01		0.5	OK
16.001	137	54	117.692	-0.215	0.000	0.01		0.5	OK

M-EC		Page 267
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
16.002	138	54	117.429	-0.290	0.000	0.01		0.9	OK
15.001	66	54	116.852	-0.334	0.000	0.03		3.2	OK
15.002	67	54	116.713	-0.331	0.000	0.03		3.6	OK
17.000	9	54	117.286	-0.298	0.000	0.00		0.1	OK
17.001	75	54	117.113	-0.284	0.000	0.01		0.9	OK
17.002	76	54	116.705	-0.515	0.000	0.00		1.6	OK
15.003	68	54	116.475	-0.470	0.000	0.02		6.0	OK
15.004	69	54	116.279	-0.538	0.000	0.02		7.2	OK
15.005	70	54	116.193	-0.535	0.000	0.03		7.2	OK
15.006	71	54	116.142	-0.532	0.000	0.03		8.4	OK
18.000	147	54	116.754	-0.217	0.000	0.01		0.3	OK
18.001	112	54	116.566	-0.281	0.000	0.01		0.7	OK
18.002	113	54	116.374	-0.429	0.000	0.01		0.9	OK
19.000	115	54	117.273	-0.221	0.000	0.00		0.2	OK
19.001	116	54	117.013	-0.217	0.000	0.01		0.6	OK
18.003	77	54	116.328	-0.422	0.000	0.01		1.7	OK
20.000	134	54	117.215	-0.217	0.000	0.01		0.7	OK
18.004	135	54	116.228	-0.472	0.000	0.02		2.9	OK
18.005	78	54	116.167	-0.478	0.000	0.02		3.3	OK
15.007	72	54	116.081	-0.517	0.000	0.04		12.2	OK
15.008	73	54	115.966	-0.488	0.000	0.06		12.8	OK
15.009	74	54	115.923	-0.488	0.000	0.08		12.8	OK
15.010	98	54	115.873	-0.512	0.000	0.05		12.8	OK
15.011	99	54	115.764	-0.519	0.000	0.05		12.8	OK
15.012	101	54	115.582	-0.517	0.000	0.05		12.8	OK
21.000	142	54	117.081	-0.208	0.000	0.02		0.8	OK
21.001	143	54	116.662	-0.205	0.000	0.02		1.1	OK
22.000	118	54	117.083	-0.223	0.000	0.00		0.1	OK
22.001	119	54	117.007	-0.213	0.000	0.01		0.3	OK
22.002	120	54	116.954	-0.207	0.000	0.02		1.1	OK
23.000	129	54	116.587	-0.290	0.000	0.01		0.6	OK
23.001	130	54	116.452	-0.290	0.000	0.01		0.7	OK
22.003	121	54	116.231	-0.263	0.000	0.04		2.3	OK
24.000	131	54	116.877	-0.201	0.000	0.02		1.0	OK
24.001	132	54	116.589	-0.193	0.000	0.05		1.4	OK
24.002	133	54	116.458	-0.282	0.000	0.01		1.6	OK
22.004	122	54	116.021	-0.404	0.000	0.02		4.2	OK
22.005	123	54	115.932	-0.396	0.000	0.03		4.8	OK
25.000	139	54	116.685	-0.201	0.000	0.03		0.7	OK
25.001	140	54	116.573	-0.201	0.000	0.03		1.6	OK
22.006	124	54	115.873	-0.389	0.000	0.04		6.7	OK
22.007	125	54	115.670	-0.537	0.000	0.02		6.7	OK
22.008	126	54	115.465	-0.695	0.000	0.01		7.2	OK
22.009	127	54	115.397	-0.666	0.000	0.03		7.2	OK
21.002	149	54	115.302	-0.713	0.000	0.01		8.3	OK
1.020	20	54	113.471	-0.083	0.000	0.96		63.9	OK
1.021	108	54	113.297	-0.248	0.000	0.25		63.9	OK
1.022	21	54	113.160	-0.249	0.000	0.25		63.8	OK
1.023	22	54	112.982	-0.239	0.000	0.26		63.8	OK

M-EC		Page 268
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	54	119.269	-0.669	0.000	0.00		1.4	OK
26.001	90	54	118.939	-0.668	0.000	0.00		1.7	OK
27.000	200	54	119.523	-0.293	0.000	0.01		0.8	OK
27.001	109	54	118.769	-0.510	0.000	0.01		0.9	OK
26.002	91	54	118.514	-0.734	0.000	0.00		2.5	OK
28.000	TWD27	54	119.335	-0.282	0.000	0.01		1.6	OK
26.003	91A	54	118.360	-0.802	0.000	0.01		4.5	OK
26.004	92	54	118.270	-0.794	0.000	0.01		5.1	OK
26.005	93	54	118.204	-0.799	0.000	0.01		5.1	OK
29.000	TWD29	54	119.362	-0.203	0.000	0.02		0.7	OK
29.001	TWD30	54	119.185	-0.273	0.000	0.02		1.2	OK
29.002	TWD31	54	119.061	-0.287	0.000	0.01		1.6	OK
26.006	94	54	118.076	-0.790	0.000	0.01		6.8	OK
26.007	95	54	117.966	-0.789	0.000	0.01		7.0	OK
30.000	201	54	119.159	-0.282	0.000	0.01		1.1	OK
30.001	202	54	118.918	-0.272	0.000	0.02		1.5	OK
30.002	203	54	118.837	-0.264	0.000	0.03		2.5	OK
30.003	204	54	118.633	-0.350	0.000	0.01		3.0	OK
30.004	117	54	118.339	-0.332	0.000	0.03		3.2	OK
26.008	95A	54	117.839	-0.772	0.000	0.01		10.8	OK
26.009	96	54	117.653	-0.780	0.000	0.01		10.8	OK
26.010	97	54	117.251	-0.787	0.000	0.01		10.8	OK
31.000	121	54	116.870	-0.750	0.000	0.02		6.9	OK
32.000	TWD4	54	120.045	-0.216	0.000	0.01		0.4	OK
32.001	TWD5	54	119.841	-0.208	0.000	0.02		0.9	OK
33.000	TWD16	54	119.442	-0.269	0.000	0.02		1.6	OK
32.002	TWD6	54	119.253	-0.335	0.000	0.03		2.7	OK
34.000	TWD17	54	119.494	-0.213	0.000	0.01		0.6	OK
35.000	TWD18	54	119.424	-0.214	0.000	0.01		0.4	OK
32.003	TWD7	54	119.104	-0.336	0.000	0.02		4.0	OK
32.004	TWD8	54	118.580	-0.403	0.000	0.02		4.9	OK
32.005	TWD9	54	118.453	-0.398	0.000	0.03		5.3	OK
32.006	TWD10	54	118.403	-0.398	0.000	0.03		5.3	OK
36.000	TWD19	54	119.519	-0.202	0.000	0.02		1.6	OK
32.007	TWD11	54	117.204	-0.517	0.000	0.05		7.1	OK
37.000	TWD20	54	119.278	-0.208	0.000	0.02		0.6	OK
37.001	TWD21	54	118.996	-0.275	0.000	0.02		1.2	OK
37.002	TWD22	54	118.798	-0.268	0.000	0.03		1.7	OK
37.003	TWD23	54	118.522	-0.338	0.000	0.02		2.2	OK
37.004	TWD24	54	118.433	-0.353	0.000	0.01		2.6	OK
37.005	TWD25	54	117.946	-0.352	0.000	0.01		2.9	OK
32.008	TWD12	54	117.102	-0.598	0.000	0.03		10.6	OK
38.000	TWD26	54	119.233	-0.217	0.000	0.01		0.8	OK
32.009	TWD13	54	116.956	-0.659	0.000	0.03		11.7	OK
32.010	TWD14	54	116.892	-0.655	0.000	0.03		12.2	OK
32.011	TWD15	54	116.842	-0.653	0.000	0.04		12.7	OK
26.011	98	54	116.607	-0.981	0.000	0.01		30.4	OK
26.012	99	54	116.061	-0.959	0.000	0.02		30.4	OK
26.013	100	54	115.812	-0.917	0.000	0.04		30.4	OK

M-EC		Page 269
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.024	23	54	112.913	-0.219	0.000	0.36		94.0	OK
1.025	24	54	112.708	-0.218	0.000	0.37		94.1	OK
1.026	25	54	112.508	-0.281	0.000	0.15		94.1	OK
39.000	79	54	121.650	-0.523	0.000	0.00		0.3	OK
39.001	80	54	121.239	-0.520	0.000	0.00		0.9	OK
39.002	81	54	120.659	-0.668	0.000	0.00		1.1	OK
40.000	130	54	120.988	-0.213	0.000	0.01		0.4	OK
41.000	BAR1	54	121.668	-0.137	0.000	0.02		0.5	OK
41.001	131	54	120.817	-0.357	0.000	0.01		0.9	OK
39.003	81A	54	120.473	-0.661	0.000	0.00		2.7	OK
42.000	133	54	120.651	-0.295	0.000	0.00		0.2	OK
39.004	82	54	120.177	-0.728	0.000	0.01		3.4	OK
39.005	83	54	120.104	-0.731	0.000	0.01		3.4	OK
43.000	BAR2	54	121.494	-0.135	0.000	0.02		0.7	OK
43.001	136	54	120.344	-0.348	0.000	0.02		1.1	OK
39.006	83A	54	119.948	-0.722	0.000	0.01		4.8	OK
44.000	206	54	120.425	-0.432	0.000	0.01		0.7	OK
44.001	207	54	120.391	-0.428	0.000	0.01		0.9	OK
44.002	208	54	120.358	-0.418	0.000	0.01		1.6	OK
44.003	209	54	120.302	-0.402	0.000	0.02		1.6	OK
45.000	210	54	120.870	-0.215	0.000	0.01		0.4	OK
45.001	211	54	120.658	-0.284	0.000	0.01		0.8	OK
45.002	212	54	120.400	-0.356	0.000	0.01		1.1	OK
44.004	213	54	120.288	-0.394	0.000	0.03		3.5	OK
44.005	214	54	120.249	-0.396	0.000	0.03		3.7	OK
44.006	215	54	120.193	-0.388	0.000	0.05		4.3	OK
44.007	138	54	120.160	-0.397	0.000	0.03		4.3	OK
39.007	84	54	119.767	-0.758	0.000	0.02		10.0	OK
46.000	BAR4	54	121.508	-0.201	0.000	0.03		1.0	OK
46.001	BAR5	54	121.291	-0.197	0.000	0.04		1.4	OK
47.000	BAR6	54	122.016	-0.135	0.000	0.02		0.4	OK
47.001	BAR7	54	121.670	-0.201	0.000	0.02		0.9	OK
47.002	BAR8	54	121.525	-0.202	0.000	0.02		1.3	OK
46.002	BAR9	54	121.121	-0.258	0.000	0.05		2.9	OK
46.003	BAR10	54	121.032	-0.269	0.000	0.02		3.7	OK
46.004	140	54	120.096	-0.399	0.000	0.03		3.7	OK
39.008	85	54	119.712	-0.756	0.000	0.02		13.7	OK
39.009	86	54	119.578	-0.756	0.000	0.02		14.2	OK
48.000	BAR3	54	120.808	-0.140	0.000	0.01		0.5	OK
48.001	143	54	119.742	-0.432	0.000	0.01		1.0	OK
49.000	216	54	120.382	-0.288	0.000	0.01		1.4	OK
49.001	144	54	119.769	-0.426	0.000	0.01		1.5	OK
39.010	87	54	119.327	-0.825	0.000	0.02		16.7	OK
39.011	88	54	119.194	-0.813	0.000	0.02		19.6	OK
39.012	103	54	119.042	-0.809	0.000	0.02		21.2	OK
50.000	BAR11	54	121.311	-0.134	0.000	0.03		0.5	OK
50.001	BAR12	54	120.936	-0.202	0.000	0.02		1.2	OK
51.000	BAR13	54	120.749	-0.219	0.000	0.01		0.2	OK
50.002	BAR14	54	120.719	-0.200	0.000	0.03		1.6	OK

M-EC		Page 270
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 1440 minute 1 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	54	120.817	-0.134	0.000	0.03		0.4	OK
52.001	BAR16	54	120.521	-0.205	0.000	0.02		0.8	OK
50.003	BAR17	54	120.357	-0.261	0.000	0.04		2.6	OK
50.004	BAR18	54	120.282	-0.259	0.000	0.05		2.9	OK
50.005	BAR19	54	120.175	-0.274	0.000	0.02		3.2	OK
50.006	149	54	119.316	-0.409	0.000	0.02		3.2	OK
53.000	TWD1	54	120.398	-0.216	0.000	0.01		0.3	OK
54.000	TWD3	54	120.660	-0.222	0.000	0.00		0.2	OK
53.001	TWD2	54	120.033	-0.213	0.000	0.01		1.0	OK
39.013	104	54	118.753	-0.917	0.000	0.04		25.5	OK
39.014	104A	54	118.696	-0.939	0.000	0.02		25.6	OK
55.000	BAR20	54	121.361	-0.132	0.000	0.04		0.6	OK
55.001	BAR21	54	120.850	-0.203	0.000	0.02		1.1	OK
56.000	BAR22	54	120.405	-0.200	0.000	0.03		1.0	OK
56.001	BAR23	54	120.273	-0.196	0.000	0.04		1.3	OK
55.002	BAR24	54	120.148	-0.266	0.000	0.03		2.5	OK
55.003	BAR25	54	119.860	-0.334	0.000	0.03		3.0	OK
55.004	BAR26	54	119.761	-0.355	0.000	0.01		3.6	OK
39.015	105	54	118.529	-0.945	0.000	0.02		29.2	OK
39.016	106	54	118.308	-1.839	0.000	0.00		29.2	OK
39.017	107	54	115.653	-0.894	0.000	0.02		29.2	OK
1.027	26	54	111.909	-0.999	0.000	0.03		123.1	OK
1.028	27	54	109.127	-0.620	0.000	0.06		123.1	OK
1.029	28	54	106.178	-1.013	0.000	0.03		123.2	OK
1.030	29	54	97.199	-1.278	0.000	0.02		123.3	OK
1.031	30	54	92.611	-0.771	0.000	0.06		123.4	OK
1.032	31	54	91.340	-0.910	0.000	0.08		123.4	OK
1.033	32	54	90.905	-1.218	0.000	0.04		123.3	OK
1.034	33	39	90.310	0.037	0.000	0.41		100.8	SURCHARGED*
57.000	108	54	90.537	-1.349	0.000	0.02		37.9	OK
57.001	109	54	90.395	-1.491	0.000	0.02		37.8	OK
57.002	110	54	90.231	-1.655	0.000	0.02		37.5	OK
1.035	109	36	90.205	0.339	0.000	0.22		52.6	SURCHARGED*
1.036	34	2	86.650	0.000	0.000	0.64		53.2	SURCHARGED*

M-EC		Page 271
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details


Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850  
Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	21	116.762	-0.093	0.000	0.42	33.8	OK
1.001	2	21	116.761	0.052	0.000	0.50	44.2	SURCHARGED
1.002	3	21	116.759	0.271	0.000	0.35	43.7	SURCHARGED
1.003	4	21	116.760	0.413	0.000	0.69	123.1	SURCHARGED
2.000	5	9	118.505	-0.170	0.000	0.39	44.5	OK
2.001	6	9	118.394	-0.067	0.000	0.94	97.7	OK
2.002	6	11	118.123	-0.090	0.000	0.81	110.0	OK
2.003	8	21	117.215	-0.133	0.000	0.57	136.9	OK
3.000	9.1	9	118.599	0.174	0.000	1.02	53.7	SURCHARGED
3.001	9	21	117.145	0.000	0.000	0.65	52.5	OK
3.002	10	22	117.104	0.121	0.000	0.63	67.2	SURCHARGED
3.003	11	22	117.091	0.209	0.000	0.77	136.1	SURCHARGED
4.000	12	21	117.175	-0.111	0.000	0.50	51.4	OK
3.004	13	22	117.079	0.319	0.000	0.53	168.0	SURCHARGED
3.005	14	22	117.069	0.516	0.000	0.90	220.4	SURCHARGED
3.006	15	22	117.062	0.597	0.000	0.92	206.0	SURCHARGED
2.004	16	22	117.059	0.616	0.000	0.95	331.4	SURCHARGED
2.005	17	21	117.052	0.699	0.000	0.86	357.9	SURCHARGED
5.000	18	21	116.929	0.042	0.000	0.24	28.8	SURCHARGED
2.006	19	21	116.929	0.750	0.000	0.95	395.0	SURCHARGED
2.007	20	21	116.848	0.841	0.000	1.03	411.9	SURCHARGED
1.004	21	21	116.767	0.919	0.000	1.48	512.4	SURCHARGED

M-EC		Page 272
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	21	116.763	0.976	0.000	0.91		562.0	SURCHARGED
6.000	23	20	116.887	-0.043	0.000	0.89		40.1	OK
6.001	24	21	116.770	0.077	0.000	1.07		39.2	SURCHARGED
6.002	25	21	116.768	0.143	0.000	0.82		61.2	SURCHARGED
6.003	26	21	116.763	0.448	0.000	1.34		82.1	SURCHARGED
6.004	27	21	116.762	0.506	0.000	0.91		114.8	SURCHARGED
6.005	28	21	116.758	0.775	0.000	0.49		114.4	SURCHARGED
1.006	29	21	116.756	1.126	0.000	0.79		656.7	SURCHARGED
7.000	30	6	118.176	-0.084	0.000	0.69		26.9	OK
7.001	31	7	117.988	-0.107	0.000	0.53		62.5	OK
1.007	8	21	116.603	1.262	0.000	0.92		686.6	SURCHARGED
8.000	60	14	116.742	-0.114	0.000	0.47		18.2	OK
8.001	61	21	116.476	-0.208	0.000	0.20		21.1	OK
8.002	35	21	116.441	0.013	0.000	0.12		30.9	SURCHARGED
1.008	10	21	116.441	1.362	0.000	2.08		691.1	SURCHARGED
9.000	62	6	119.576	0.276	0.000	0.70		57.7	SURCHARGED
10.000	40	6	119.901	0.933	0.000	2.74		168.1	FLOOD RISK
9.001	63	7	119.411	0.432	0.000	1.45		243.1	SURCHARGED
9.002	64	7	118.370	-0.148	0.000	0.65		299.9	OK
9.003	148	21	116.576	1.310	0.000	1.18		301.3	SURCHARGED
1.009	11	21	116.438	1.378	0.000	1.31		963.6	SURCHARGED
1.010	12	21	116.433	1.457	0.000	2.57		961.8	SURCHARGED
1.011	13	21	116.429	1.475	0.000	2.16		942.2	SURCHARGED
1.012	14	21	116.424	1.503	0.000	0.98		928.6	SURCHARGED
1.013	15	21	116.420	1.550	0.000	1.94		887.5	SURCHARGED
1.014	16	20	116.417	1.570	0.000	0.90		828.0	SURCHARGED
11.000	TWC16	7	117.778	-0.063	0.000	0.84		82.1	OK
11.001	TWC17	21	116.413	0.753	0.000	0.66		82.6	SURCHARGED
1.015	17	20	116.413	1.543	0.000	0.54		766.5	SURCHARGED
1.016	18	20	116.409	1.642	0.000	0.54		728.4	SURCHARGED
12.000	TWC1	7	118.162	0.361	0.000	0.61		22.6	SURCHARGED
12.001	TWC2	7	118.096	0.460	0.000	0.83		31.6	SURCHARGED
12.002	TWC3	8	117.923	0.553	0.000	1.76		60.6	SURCHARGED
12.003	TWC4	8	117.691	0.394	0.000	1.81		59.7	SURCHARGED
13.000	TWC5	7	119.057	0.767	0.000	1.01		38.4	SURCHARGED
13.001	TWC6	7	118.845	0.777	0.000	1.70		63.6	SURCHARGED
13.002	TWC7	7	118.344	0.446	0.000	1.12		79.8	SURCHARGED
12.004	TWC8	10	117.512	0.270	0.000	1.60		154.5	SURCHARGED
12.005	TWC9	11	117.322	0.154	0.000	1.90		168.4	SURCHARGED
12.006	TWC10	11	117.132	0.012	0.000	1.08		173.7	SURCHARGED
1.017	TWC11	20	116.403	1.736	0.000	0.58		845.4	SURCHARGED
1.018	19	20	116.397	1.804	0.000	0.41		840.5	SURCHARGED
14.000	TWC12	10	117.291	-0.118	0.000	0.44		16.5	OK
14.001	TWC13	11	117.104	-0.148	0.000	0.25		31.9	OK
14.002	TWC14	20	116.392	0.113	0.000	0.83		65.4	SURCHARGED
1.019	TWC15	20	116.392	2.064	0.000	0.65		817.3	SURCHARGED
15.000	65	11	117.420	0.051	0.000	0.90		62.1	SURCHARGED
16.000	136	7	118.083	-0.131	0.000	0.36		21.6	OK
16.001	137	8	117.783	-0.124	0.000	0.40		22.8	OK



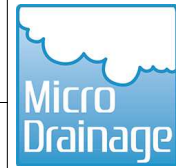
M-EC		Page 273
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	10	117.539	-0.180	0.000	0.33		42.4	OK
15.001	66	11	117.267	0.081	0.000	1.08		127.6	SURCHARGED
15.002	67	11	117.111	0.067	0.000	1.24		140.7	SURCHARGED
17.000	9	11	117.337	-0.247	0.000	0.07		5.7	OK
17.001	75	11	117.253	-0.144	0.000	0.52		40.2	OK
17.002	76	13	117.006	-0.214	0.000	0.19		77.0	OK
15.003	68	13	116.978	0.033	0.000	0.87		210.3	SURCHARGED
15.004	69	13	116.904	0.087	0.000	0.76		238.7	SURCHARGED
15.005	70	13	116.860	0.132	0.000	0.81		229.3	SURCHARGED
15.006	71	13	116.819	0.145	0.000	0.82		255.7	SURCHARGED
18.000	147	13	116.877	-0.094	0.000	0.35		13.6	OK
18.001	112	13	116.854	0.007	0.000	0.61		32.1	SURCHARGED
18.002	113	13	116.837	0.034	0.000	0.30		36.4	SURCHARGED
19.000	115	10	117.335	-0.159	0.000	0.18		8.8	OK
19.001	116	11	117.096	-0.134	0.000	0.34		26.2	OK
18.003	77	13	116.828	0.078	0.000	0.46		57.4	SURCHARGED
20.000	134	10	117.299	-0.133	0.000	0.35		29.5	OK
18.004	135	14	116.813	0.113	0.000	0.55		93.1	SURCHARGED
18.005	78	14	116.792	0.147	0.000	0.50		86.8	SURCHARGED
15.007	72	14	116.771	0.173	0.000	1.18		336.3	SURCHARGED
15.008	73	16	116.588	0.134	0.000	1.60		341.2	SURCHARGED
15.009	74	17	116.547	0.136	0.000	2.08		337.6	SURCHARGED
15.010	98	18	116.509	0.124	0.000	1.22		327.8	SURCHARGED
15.011	99	19	116.452	0.169	0.000	1.01		285.8	SURCHARGED
15.012	101	19	116.418	0.319	0.000	0.91		250.4	SURCHARGED
21.000	142	11	117.210	-0.079	0.000	0.72		33.4	OK
21.001	143	13	116.804	-0.063	0.000	0.85		50.7	OK
22.000	118	13	117.137	-0.169	0.000	0.07		2.4	OK
22.001	119	13	117.126	-0.094	0.000	0.51		16.1	OK
22.002	120	13	117.100	-0.061	0.000	0.78		48.6	OK
23.000	129	13	116.862	-0.015	0.000	0.30		24.8	OK
23.001	130	15	116.808	0.066	0.000	0.29		29.7	SURCHARGED
22.003	121	15	116.744	0.250	0.000	1.40		91.1	SURCHARGED
24.000	131	11	117.223	0.144	0.000	1.05		43.8	SURCHARGED
24.001	132	13	116.928	0.145	0.000	2.06		56.0	SURCHARGED
24.002	133	15	116.781	0.041	0.000	0.48		60.6	SURCHARGED
22.004	122	18	116.606	0.182	0.000	0.89		161.8	SURCHARGED
22.005	123	20	116.496	0.167	0.000	1.20		182.6	SURCHARGED
25.000	139	13	117.064	0.178	0.000	1.10		29.9	SURCHARGED
25.001	140	13	116.956	0.182	0.000	1.05		64.2	SURCHARGED
22.006	124	21	116.387	0.125	0.000	1.71		257.4	SURCHARGED
22.007	125	21	116.380	0.174	0.000	0.94		257.2	SURCHARGED
22.008	126	21	116.382	0.222	0.000	0.48		260.1	SURCHARGED
22.009	127	21	116.383	0.320	0.000	1.04		254.5	SURCHARGED
21.002	149	21	116.384	0.369	0.000	0.36		289.2	SURCHARGED
1.020	20	20	116.385	2.831	0.000	6.87		455.2	SURCHARGED
1.021	108	17	115.771	2.226	0.000	1.77		443.5	SURCHARGED
1.022	21	17	115.575	2.166	0.000	1.68		429.2	SURCHARGED
1.023	22	15	115.303	2.082	0.000	1.74		426.3	SURCHARGED

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1


Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	6	119.398	-0.540	0.000	0.09		62.2	OK
26.001	90	6	119.074	-0.533	0.000	0.10		73.7	OK
27.000	200	6	119.614	-0.202	0.000	0.23		36.0	OK
27.001	109	6	118.945	-0.334	0.000	0.28		40.3	OK
26.002	91	6	118.730	-0.518	0.000	0.21		115.1	OK
28.000	TWD27	6	119.480	-0.137	0.000	0.57		73.2	OK
26.003	91A	6	118.636	-0.526	0.000	0.26		201.2	OK
26.004	92	6	118.578	-0.486	0.000	0.35		228.7	OK
26.005	93	6	118.492	-0.511	0.000	0.29		223.9	OK
29.000	TWD29	6	119.513	-0.052	0.000	0.92		33.0	OK
29.001	TWD30	6	119.378	-0.080	0.000	0.86		55.2	OK
29.002	TWD31	6	119.186	-0.162	0.000	0.42		73.7	OK
26.006	94	6	118.400	-0.466	0.000	0.39		298.0	OK
26.007	95	6	118.295	-0.460	0.000	0.40		304.8	OK
30.000	201	6	119.386	-0.055	0.000	0.55		46.4	OK
30.001	202	6	119.308	0.118	0.000	0.83		61.8	SURCHARGED
30.002	203	6	119.211	0.110	0.000	1.41		106.1	SURCHARGED
30.003	204	6	118.819	-0.164	0.000	0.60		124.5	OK
30.004	117	6	118.707	0.036	0.000	1.27		132.0	SURCHARGED
26.008	95A	6	118.230	-0.381	0.000	0.56		445.4	OK
26.009	96	6	118.008	-0.425	0.000	0.46		430.1	OK
26.010	97	6	117.568	-0.470	0.000	0.38		423.3	OK
31.000	121	6	117.392	-0.228	0.000	0.85		307.0	OK
32.000	TWD4	6	120.135	-0.126	0.000	0.40		19.5	OK
32.001	TWD5	6	119.970	-0.079	0.000	0.73		43.6	OK
33.000	TWD16	6	119.732	0.021	0.000	1.05		68.3	SURCHARGED
32.002	TWD6	6	119.598	0.010	0.000	1.06		113.7	SURCHARGED
34.000	TWD17	6	119.597	-0.110	0.000	0.51		26.5	OK
35.000	TWD18	6	119.520	-0.118	0.000	0.45		18.5	OK
32.003	TWD7	7	119.407	-0.033	0.000	0.92		152.1	OK
32.004	TWD8	7	119.045	0.062	0.000	0.82		168.7	SURCHARGED
32.005	TWD9	7	118.924	0.073	0.000	1.04		176.2	SURCHARGED
32.006	TWD10	7	118.820	0.019	0.000	1.05		177.6	SURCHARGED
36.000	TWD19	6	119.716	-0.005	0.000	1.00		68.6	OK
32.007	TWD11	7	117.734	0.013	0.000	1.63		245.8	SURCHARGED
37.000	TWD20	6	119.403	-0.083	0.000	0.70		26.5	OK
37.001	TWD21	6	119.178	-0.093	0.000	0.78		52.6	OK
37.002	TWD22	6	119.046	-0.020	0.000	0.99		67.0	OK
37.003	TWD23	6	118.743	-0.117	0.000	0.80		84.7	OK
37.004	TWD24	6	118.594	-0.192	0.000	0.47		98.1	OK
37.005	TWD25	6	118.111	-0.187	0.000	0.49		110.6	OK
32.008	TWD12	9	117.700	0.000	0.000	1.05		368.6	OK
38.000	TWD26	6	119.317	-0.133	0.000	0.35		35.0	OK
32.009	TWD13	7	117.615	0.000	0.000	0.86		373.7	OK
32.010	TWD14	11	117.547	0.000	0.000	0.93		381.6	OK
32.011	TWD15	8	117.495	0.000	0.000	1.23		384.5	OK
26.011	98	7	117.022	-0.566	0.000	0.44		953.5	OK
26.012	99	7	116.789	-0.231	0.000	0.54		896.7	OK
26.013	100	7	116.729	0.000	0.000	1.16		909.4	OK

M-EC		Page 275
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	15	115.172	2.040	0.000	2.53		656.9	SURCHARGED
1.025	24	10	113.988	1.062	0.000	2.48		634.1	SURCHARGED
1.026	25	9	113.149	0.360	0.000	1.00		634.9	SURCHARGED
39.000	79	6	121.710	-0.463	0.000	0.03		15.1	OK
39.001	80	6	121.340	-0.419	0.000	0.09		43.5	OK
39.002	81	6	120.793	-0.534	0.000	0.10		54.0	OK
40.000	130	7	121.068	-0.133	0.000	0.36		12.0	OK
41.000	BAR1	6	121.761	-0.044	0.000	0.83		23.9	OK
41.001	131	6	120.980	-0.194	0.000	0.46		43.8	OK
39.003	81A	6	120.661	-0.473	0.000	0.19		115.7	OK
42.000	133	7	120.714	-0.232	0.000	0.12		6.6	OK
39.004	82	6	120.423	-0.482	0.000	0.27		144.8	OK
39.005	83	6	120.340	-0.495	0.000	0.22		142.8	OK
43.000	BAR2	6	121.608	-0.021	0.000	0.99		30.8	OK
43.001	136	6	120.549	-0.143	0.000	0.69		51.0	OK
39.006	83A	7	120.244	-0.426	0.000	0.32		196.1	OK
44.000	206	10	120.857	0.000	0.000	0.26		27.4	OK
44.001	207	10	120.819	0.000	0.000	0.29		34.3	OK
44.002	208	7	120.781	0.005	0.000	0.40		53.9	SURCHARGED
44.003	209	7	120.713	0.009	0.000	0.58		53.4	SURCHARGED
45.000	210	6	120.962	-0.123	0.000	0.42		18.8	OK
45.001	211	7	120.818	-0.124	0.000	0.50		33.3	OK
45.002	212	7	120.777	0.021	0.000	0.38		40.9	SURCHARGED
44.004	213	7	120.689	0.007	0.000	1.15		119.4	SURCHARGED
44.005	214	7	120.649	0.003	0.000	0.88		118.5	SURCHARGED
44.006	215	7	120.596	0.015	0.000	1.42		134.5	SURCHARGED
44.007	138	7	120.557	0.000	0.000	1.05		134.1	OK
39.007	84	7	120.169	-0.356	0.000	0.58		345.4	OK
46.000	BAR4	6	122.032	0.323	0.000	1.02		38.5	SURCHARGED
46.001	BAR5	6	121.792	0.304	0.000	1.46		52.3	SURCHARGED
47.000	BAR6	6	122.191	0.040	0.000	0.96		16.4	SURCHARGED
47.001	BAR7	6	121.931	0.060	0.000	1.01		37.0	SURCHARGED
47.002	BAR8	6	121.792	0.065	0.000	0.84		49.0	SURCHARGED
46.002	BAR9	6	121.546	0.167	0.000	1.81		111.6	SURCHARGED
46.003	BAR10	6	121.218	-0.083	0.000	0.85		139.8	OK
46.004	140	6	120.495	0.000	0.000	1.16		139.1	OK
39.008	85	7	120.118	-0.350	0.000	0.62		480.2	OK
39.009	86	7	119.982	-0.352	0.000	0.62		494.0	OK
48.000	BAR3	6	120.885	-0.063	0.000	0.63		20.9	OK
48.001	143	6	119.923	-0.251	0.000	0.40		45.2	OK
49.000	216	6	120.498	-0.172	0.000	0.38		65.5	OK
49.001	144	6	119.977	-0.218	0.000	0.51		69.1	OK
39.010	87	7	119.758	-0.394	0.000	0.59		566.4	OK
39.011	88	7	119.709	-0.298	0.000	0.66		628.3	OK
39.012	103	7	119.636	-0.215	0.000	0.68		651.3	OK
50.000	BAR11	6	121.695	0.250	0.000	1.04		17.9	SURCHARGED
50.001	BAR12	6	121.371	0.233	0.000	0.83		42.3	SURCHARGED
51.000	BAR13	6	121.232	0.264	0.000	0.25		7.8	SURCHARGED
50.002	BAR14	6	121.224	0.305	0.000	1.08		58.0	SURCHARGED

M-EC		Page 276
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	6	121.214	0.263	0.000	1.03		17.3	SURCHARGED
52.001	BAR16	6	120.974	0.248	0.000	0.68		30.0	SURCHARGED
50.003	BAR17	6	120.871	0.253	0.000	1.53		93.8	SURCHARGED
50.004	BAR18	6	120.690	0.149	0.000	1.64		103.2	SURCHARGED
50.005	BAR19	7	120.330	-0.119	0.000	0.66		115.2	OK
50.006	149	7	119.583	-0.142	0.000	0.68		115.6	OK
53.000	TWD1	6	120.486	-0.128	0.000	0.36		14.1	OK
54.000	TWD3	6	120.706	-0.176	0.000	0.11		9.3	OK
53.001	TWD2	6	120.136	-0.110	0.000	0.50		45.3	OK
39.013	104	7	119.558	-0.112	0.000	1.16		773.9	OK
39.014	104A	7	119.237	-0.398	0.000	0.67		761.4	OK
55.000	BAR20	6	121.888	0.395	0.000	1.36		23.7	SURCHARGED
55.001	BAR21	6	120.991	-0.062	0.000	0.84		45.3	OK
56.000	BAR22	6	120.824	0.219	0.000	1.11		40.4	SURCHARGED
56.001	BAR23	6	120.650	0.181	0.000	1.57		51.3	SURCHARGED
55.002	BAR24	6	120.509	0.095	0.000	1.21		98.4	SURCHARGED
55.003	BAR25	7	120.192	-0.002	0.000	1.00		106.8	OK
55.004	BAR26	6	119.911	-0.205	0.000	0.42		130.4	OK
39.015	105	7	119.055	-0.419	0.000	0.61		835.6	OK
39.016	106	7	118.892	-1.255	0.000	0.10		775.8	OK
39.017	107	7	116.193	-0.354	0.000	0.41		770.4	OK
1.027	26	8	112.453	-0.455	0.000	0.36		1374.0	OK
1.028	27	8	109.598	-0.149	0.000	0.66		1363.4	FLOOD RISK*
1.029	28	8	106.659	-0.532	0.000	0.28		1301.0	OK
1.030	29	10	97.715	-0.762	0.000	0.21		1257.6	OK
1.031	30	10	93.168	-0.214	0.000	0.59		1215.7	FLOOD RISK*
1.032	31	11	92.088	-0.162	0.000	0.72		1135.2	FLOOD RISK*
1.033	32	23	91.550	-0.573	0.000	0.34		1082.9	OK
1.034	33	40	90.306	0.033	0.000	1.08		262.9	SURCHARGED*
57.000	108	9	91.676	-0.210	0.000	0.71		1146.8	FLOOD RISK*
57.001	109	18	91.374	-0.512	0.000	0.41		792.2	OK
57.002	110	27	90.929	-0.957	0.000	0.21		509.2	OK
1.035	109	47	90.001	0.135	0.000	0.35		83.7	SURCHARGED*
1.036	34	1	86.650	0.000	0.000	0.66		54.8	SURCHARGED*

M-EC		Page 277
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	14	117.110	0.255	0.000	0.33	26.6	SURCHARGED
1.001	2	14	117.106	0.397	0.000	0.39	34.4	SURCHARGED
1.002	3	14	117.100	0.612	0.000	0.28	34.4	SURCHARGED
1.003	4	14	117.098	0.751	0.000	0.56	99.1	SURCHARGED
2.000	5	12	118.487	-0.188	0.000	0.30	34.6	OK
2.001	6	12	118.351	-0.110	0.000	0.72	74.2	OK
2.002	6	14	118.086	-0.127	0.000	0.63	85.0	OK
2.003	8	15	117.516	0.168	0.000	0.45	106.3	SURCHARGED
3.000	9.1	14	118.369	-0.056	0.000	0.88	45.9	OK
3.001	9	15	117.755	0.610	0.000	0.57	45.6	SURCHARGED
3.002	10	15	117.735	0.752	0.000	0.56	59.8	SURCHARGED
3.003	11	16	117.708	0.826	0.000	0.65	115.0	SURCHARGED
4.000	12	16	117.623	0.337	0.000	0.39	39.9	SURCHARGED
3.004	13	15	117.617	0.857	0.000	0.47	148.4	SURCHARGED
3.005	14	15	117.548	0.995	0.000	0.80	198.1	SURCHARGED
3.006	15	15	117.511	1.046	0.000	0.85	191.0	SURCHARGED
2.004	16	15	117.508	1.065	0.000	0.84	293.1	SURCHARGED
2.005	17	14	117.498	1.145	0.000	0.75	313.6	SURCHARGED
5.000	18	14	117.361	0.474	0.000	0.19	22.3	SURCHARGED
2.006	19	14	117.358	1.179	0.000	0.79	328.5	SURCHARGED
2.007	20	14	117.219	1.212	0.000	0.86	343.1	SURCHARGED
1.004	21	14	117.088	1.240	0.000	1.24	430.2	SURCHARGED

M-EC		Page 278
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.005	22	14	117.081	1.294	0.000	0.77	478.2	SURCHARGED
6.000	23	14	117.118	0.188	0.000	0.71	32.1	SURCHARGED
6.001	24	14	117.107	0.414	0.000	0.87	31.9	SURCHARGED
6.002	25	14	117.102	0.477	0.000	0.68	51.0	SURCHARGED
6.003	26	14	117.091	0.776	0.000	1.03	63.3	SURCHARGED
6.004	27	14	117.086	0.830	0.000	0.73	92.1	SURCHARGED
6.005	28	14	117.075	1.092	0.000	0.40	92.1	SURCHARGED
1.006	29	14	117.070	1.440	0.000	0.68	567.2	SURCHARGED
7.000	30	10	118.153	-0.107	0.000	0.54	21.2	OK
7.001	31	10	117.970	-0.125	0.000	0.41	48.0	OK
1.007	8	14	116.892	1.551	0.000	0.77	579.2	SURCHARGED
8.000	60	15	116.739	-0.117	0.000	0.37	14.4	OK
8.001	61	14	116.735	0.051	0.000	0.16	16.5	SURCHARGED
8.002	35	14	116.733	0.305	0.000	0.10	24.0	SURCHARGED
1.008	10	14	116.732	1.653	0.000	1.75	580.9	SURCHARGED
9.000	62	10	119.272	-0.028	0.000	0.60	49.4	OK
10.000	40	10	119.504	0.536	0.000	2.30	141.1	SURCHARGED
9.001	63	10	119.162	0.183	0.000	1.23	205.8	SURCHARGED
9.002	64	10	118.345	-0.173	0.000	0.56	256.6	OK
9.003	148	14	116.868	1.602	0.000	1.00	256.4	SURCHARGED
1.009	11	14	116.725	1.665	0.000	1.14	835.7	SURCHARGED
1.010	12	14	116.711	1.735	0.000	2.22	829.7	SURCHARGED
1.011	13	14	116.701	1.747	0.000	1.86	808.6	SURCHARGED
1.012	14	14	116.690	1.769	0.000	0.79	746.1	SURCHARGED
1.013	15	14	116.682	1.812	0.000	1.54	701.5	SURCHARGED
1.014	16	14	116.673	1.826	0.000	0.76	695.0	SURCHARGED
11.000	TWC16	11	117.750	-0.091	0.000	0.66	64.8	OK
11.001	TWC17	14	116.667	1.007	0.000	0.52	64.7	SURCHARGED
1.015	17	14	116.664	1.794	0.000	0.46	664.1	SURCHARGED
1.016	18	14	116.656	1.889	0.000	0.48	644.9	SURCHARGED
12.000	TWC1	11	117.888	0.087	0.000	0.52	19.4	SURCHARGED
12.001	TWC2	11	117.835	0.199	0.000	0.70	26.9	SURCHARGED
12.002	TWC3	11	117.706	0.336	0.000	1.51	52.0	SURCHARGED
12.003	TWC4	13	117.535	0.238	0.000	1.57	51.9	SURCHARGED
13.000	TWC5	10	118.622	0.332	0.000	0.85	32.4	SURCHARGED
13.001	TWC6	10	118.462	0.394	0.000	1.53	57.1	SURCHARGED
13.002	TWC7	10	118.061	0.163	0.000	1.00	71.5	SURCHARGED
12.004	TWC8	14	117.398	0.156	0.000	1.42	136.7	SURCHARGED
12.005	TWC9	14	117.248	0.080	0.000	1.69	149.2	SURCHARGED
12.006	TWC10	14	117.035	-0.085	0.000	0.95	153.9	OK
1.017	TWC11	14	116.648	1.981	0.000	0.53	775.8	SURCHARGED
1.018	19	14	116.638	2.045	0.000	0.37	769.5	SURCHARGED
14.000	TWC12	13	117.276	-0.133	0.000	0.35	13.0	OK
14.001	TWC13	14	117.094	-0.158	0.000	0.19	24.5	OK
14.002	TWC14	14	116.631	0.352	0.000	0.62	49.2	SURCHARGED
1.019	TWC15	14	116.631	2.303	0.000	0.62	777.2	SURCHARGED
15.000	65	14	117.267	-0.102	0.000	0.76	51.9	OK
16.000	136	10	118.070	-0.144	0.000	0.28	16.7	OK
16.001	137	12	117.769	-0.138	0.000	0.32	17.8	OK

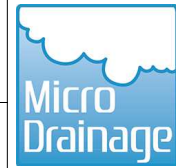
M-EC		Page 279
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	13	117.521	-0.198	0.000	0.25		32.6	OK
15.001	66	15	117.149	-0.037	0.000	0.89		105.5	OK
15.002	67	16	117.043	-0.001	0.000	1.00		113.5	OK
17.000	9	14	117.329	-0.255	0.000	0.06		4.5	OK
17.001	75	14	117.229	-0.168	0.000	0.40		30.5	OK
17.002	76	14	116.962	-0.258	0.000	0.14		57.6	OK
15.003	68	14	116.946	0.001	0.000	0.76		182.5	SURCHARGED
15.004	69	14	116.863	0.046	0.000	0.68		214.9	SURCHARGED
15.005	70	14	116.840	0.112	0.000	0.74		207.2	SURCHARGED
15.006	71	14	116.819	0.145	0.000	0.76		234.6	SURCHARGED
18.000	147	14	116.867	-0.104	0.000	0.27		10.6	OK
18.001	112	14	116.847	0.000	0.000	0.46		24.1	OK
18.002	113	14	116.825	0.022	0.000	0.22		27.1	SURCHARGED
19.000	115	13	117.325	-0.169	0.000	0.14		6.9	OK
19.001	116	14	117.083	-0.147	0.000	0.26		19.8	OK
18.003	77	14	116.822	0.072	0.000	0.36		44.8	SURCHARGED
20.000	134	14	117.286	-0.146	0.000	0.27		22.9	OK
18.004	135	13	116.814	0.114	0.000	0.45		75.3	SURCHARGED
18.005	78	13	116.803	0.158	0.000	0.46		80.4	SURCHARGED
15.007	72	13	116.792	0.194	0.000	1.10		314.1	SURCHARGED
15.008	73	14	116.736	0.282	0.000	1.50		320.3	SURCHARGED
15.009	74	14	116.703	0.292	0.000	1.94		315.7	SURCHARGED
15.010	98	14	116.690	0.305	0.000	1.14		306.8	SURCHARGED
15.011	99	14	116.671	0.388	0.000	0.97		276.4	SURCHARGED
15.012	101	14	116.646	0.547	0.000	0.94		259.4	SURCHARGED
21.000	142	14	117.186	-0.103	0.000	0.57		26.3	OK
21.001	143	17	116.777	-0.090	0.000	0.66		39.4	OK
22.000	118	16	117.123	-0.183	0.000	0.06		1.9	OK
22.001	119	16	117.099	-0.121	0.000	0.39		12.4	OK
22.002	120	16	117.063	-0.098	0.000	0.60		37.4	OK
23.000	129	20	116.703	-0.174	0.000	0.25		20.8	OK
23.001	130	19	116.700	-0.042	0.000	0.24		23.9	OK
22.003	121	19	116.696	0.203	0.000	1.19		77.0	SURCHARGED
24.000	131	16	117.049	-0.029	0.000	0.84		35.1	OK
24.001	132	16	116.852	0.070	0.000	1.70		46.1	SURCHARGED
24.002	133	18	116.699	-0.042	0.000	0.42		53.6	OK
22.004	122	17	116.691	0.266	0.000	0.76		138.7	SURCHARGED
22.005	123	16	116.682	0.354	0.000	1.03		156.5	SURCHARGED
25.000	139	16	116.830	-0.056	0.000	0.91		24.8	OK
25.001	140	18	116.725	-0.049	0.000	0.89		54.9	OK
22.006	124	15	116.673	0.411	0.000	1.46		219.2	SURCHARGED
22.007	125	15	116.655	0.449	0.000	0.81		220.2	SURCHARGED
22.008	126	15	116.650	0.490	0.000	0.42		227.1	SURCHARGED
22.009	127	15	116.645	0.582	0.000	0.90		222.0	SURCHARGED
21.002	149	15	116.641	0.626	0.000	0.30		241.2	SURCHARGED
1.020	20	14	116.621	3.067	0.000	7.00		463.9	SURCHARGED
1.021	108	13	115.925	2.380	0.000	1.81		453.8	SURCHARGED
1.022	21	11	115.703	2.294	0.000	1.73		441.3	SURCHARGED
1.023	22	11	115.401	2.180	0.000	1.79		438.8	SURCHARGED

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP


Micro Drainage

Network 2016.1

Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
26.000	89	10	119.377	-0.561	0.000	0.07	48.9	OK
26.001	90	10	119.055	-0.552	0.000	0.08	58.0	OK
27.000	200	10	119.601	-0.215	0.000	0.18	27.9	OK
27.001	109	10	118.920	-0.359	0.000	0.22	31.4	OK
26.002	91	10	118.698	-0.550	0.000	0.16	89.3	OK
28.000	TWD27	10	119.456	-0.161	0.000	0.44	56.9	OK
26.003	91A	10	118.594	-0.568	0.000	0.21	156.4	OK
26.004	92	10	118.533	-0.531	0.000	0.27	177.1	OK
26.005	93	10	118.450	-0.553	0.000	0.23	177.5	OK
29.000	TWD29	10	119.482	-0.083	0.000	0.72	26.0	OK
29.001	TWD30	10	119.339	-0.119	0.000	0.67	43.0	OK
29.002	TWD31	10	119.167	-0.181	0.000	0.33	57.5	OK
26.006	94	10	118.353	-0.513	0.000	0.31	234.9	OK
26.007	95	10	118.247	-0.508	0.000	0.31	240.9	OK
30.000	201	10	119.282	-0.159	0.000	0.45	37.8	OK
30.001	202	10	119.211	0.021	0.000	0.64	47.7	SURCHARGED
30.002	203	10	119.111	0.010	0.000	1.09	81.9	SURCHARGED
30.003	204	10	118.788	-0.195	0.000	0.46	96.8	OK
30.004	117	10	118.597	-0.074	0.000	0.99	103.3	OK
26.008	95A	10	118.175	-0.436	0.000	0.45	360.4	OK
26.009	96	10	117.960	-0.473	0.000	0.38	355.2	OK
26.010	97	10	117.532	-0.506	0.000	0.32	352.1	OK
31.000	121	10	117.289	-0.331	0.000	0.67	242.0	OK
32.000	TWD4	10	120.121	-0.140	0.000	0.31	15.2	OK
32.001	TWD5	10	119.946	-0.103	0.000	0.56	33.5	OK
33.000	TWD16	10	119.624	-0.087	0.000	0.84	54.9	OK
32.002	TWD6	10	119.488	-0.100	0.000	0.88	94.0	OK
34.000	TWD17	10	119.580	-0.127	0.000	0.40	20.7	OK
35.000	TWD18	10	119.505	-0.133	0.000	0.35	14.6	OK
32.003	TWD7	10	119.325	-0.115	0.000	0.81	135.0	OK
32.004	TWD8	10	118.858	-0.125	0.000	0.78	159.9	OK
32.005	TWD9	10	118.784	-0.067	0.000	0.99	168.0	OK
32.006	TWD10	10	118.735	-0.066	0.000	1.00	169.1	OK
36.000	TWD19	10	119.649	-0.072	0.000	0.80	55.0	OK
32.007	TWD11	8	117.730	0.009	0.000	1.52	229.1	SURCHARGED
37.000	TWD20	10	119.381	-0.105	0.000	0.55	20.8	OK
37.001	TWD21	10	119.143	-0.128	0.000	0.61	41.1	OK
37.002	TWD22	10	118.981	-0.085	0.000	0.84	56.8	OK
37.003	TWD23	10	118.715	-0.145	0.000	0.68	72.6	OK
37.004	TWD24	10	118.576	-0.210	0.000	0.40	83.9	OK
37.005	TWD25	10	118.092	-0.206	0.000	0.42	94.6	OK
32.008	TWD12	10	117.700	0.000	0.000	0.93	327.0	OK
38.000	TWD26	10	119.304	-0.146	0.000	0.27	27.1	OK
32.009	TWD13	10	117.615	0.000	0.000	0.78	341.8	OK
32.010	TWD14	9	117.547	0.000	0.000	0.84	346.2	OK
32.011	TWD15	7	117.495	0.000	0.000	1.12	352.9	OK
26.011	98	9	116.993	-0.595	0.000	0.39	854.9	OK
26.012	99	9	116.733	-0.287	0.000	0.49	805.2	OK
26.013	100	9	116.681	-0.048	0.000	1.00	780.8	OK



M-EC		Page 281
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	11	115.252	2.120	0.000	2.53		657.1	SURCHARGED
1.025	24	11	113.982	1.056	0.000	2.52		645.3	SURCHARGED
1.026	25	10	113.135	0.346	0.000	1.01		645.9	SURCHARGED
39.000	79	10	121.704	-0.469	0.000	0.03		11.7	OK
39.001	80	10	121.324	-0.435	0.000	0.07		32.7	OK
39.002	81	10	120.772	-0.555	0.000	0.07		40.6	OK
40.000	130	8	121.066	-0.135	0.000	0.34		11.4	OK
41.000	BAR1	10	121.743	-0.062	0.000	0.65		18.6	OK
41.001	131	10	120.953	-0.221	0.000	0.35		33.4	OK
39.003	81A	10	120.633	-0.501	0.000	0.15		90.9	OK
42.000	133	8	120.712	-0.234	0.000	0.11		6.3	OK
39.004	82	10	120.389	-0.516	0.000	0.21		113.7	OK
39.005	83	10	120.307	-0.528	0.000	0.18		112.9	OK
43.000	BAR2	10	121.579	-0.050	0.000	0.78		24.2	OK
43.001	136	10	120.513	-0.179	0.000	0.53		39.3	OK
39.006	83A	10	120.200	-0.470	0.000	0.26		159.9	OK
44.000	206	8	120.857	0.000	0.000	0.21		22.0	OK
44.001	207	7	120.819	0.000	0.000	0.23		26.8	OK
44.002	208	10	120.776	0.000	0.000	0.31		42.1	OK
44.003	209	11	120.704	0.000	0.000	0.50		46.2	OK
45.000	210	10	120.948	-0.137	0.000	0.32		14.6	OK
45.001	211	10	120.795	-0.147	0.000	0.40		26.4	OK
45.002	212	9	120.768	0.012	0.000	0.33		34.9	SURCHARGED
44.004	213	9	120.682	0.000	0.000	0.89		92.2	OK
44.005	214	10	120.645	0.000	0.000	0.72		96.5	OK
44.006	215	8	120.581	0.000	0.000	1.18		111.2	OK
44.007	138	10	120.432	-0.125	0.000	0.87		110.8	OK
39.007	84	10	120.115	-0.410	0.000	0.47		281.0	OK
46.000	BAR4	10	121.797	0.088	0.000	0.84		31.6	SURCHARGED
46.001	BAR5	10	121.639	0.151	0.000	1.23		43.9	SURCHARGED
47.000	BAR6	10	122.104	-0.047	0.000	0.81		13.8	OK
47.001	BAR7	10	121.808	-0.063	0.000	0.86		31.4	OK
47.002	BAR8	10	121.656	-0.071	0.000	0.74		43.1	OK
46.002	BAR9	10	121.472	0.093	0.000	1.54		94.8	SURCHARGED
46.003	BAR10	10	121.193	-0.108	0.000	0.73		119.3	OK
46.004	140	10	120.403	-0.092	0.000	0.99		119.2	OK
39.008	85	10	120.066	-0.402	0.000	0.52		399.4	OK
39.009	86	10	119.931	-0.403	0.000	0.52		413.8	OK
48.000	BAR3	10	120.872	-0.076	0.000	0.49		16.2	OK
48.001	143	10	119.894	-0.280	0.000	0.30		34.2	OK
49.000	216	10	120.481	-0.189	0.000	0.29		50.8	OK
49.001	144	10	119.943	-0.252	0.000	0.40		54.0	OK
39.010	87	10	119.708	-0.444	0.000	0.51		490.5	OK
39.011	88	9	119.642	-0.365	0.000	0.59		566.3	OK
39.012	103	9	119.554	-0.297	0.000	0.63		602.8	OK
50.000	BAR11	10	121.413	-0.032	0.000	0.96		16.7	OK
50.001	BAR12	10	121.151	0.013	0.000	0.75		38.6	SURCHARGED
51.000	BAR13	10	121.037	0.069	0.000	0.20		6.3	SURCHARGED
50.002	BAR14	10	121.030	0.111	0.000	0.94		50.8	SURCHARGED

M-EC		Page 282
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	10	121.008	0.057	0.000	0.86		14.4	SURCHARGED
52.001	BAR16	10	120.841	0.115	0.000	0.58		25.4	SURCHARGED
50.003	BAR17	10	120.759	0.141	0.000	1.33		81.6	SURCHARGED
50.004	BAR18	10	120.625	0.084	0.000	1.43		90.0	SURCHARGED
50.005	BAR19	10	120.313	-0.136	0.000	0.57		100.5	OK
50.006	149	10	119.526	-0.199	0.000	0.60		100.7	OK
53.000	TWD1	10	120.472	-0.142	0.000	0.29		11.1	OK
54.000	TWD3	10	120.700	-0.182	0.000	0.08		7.2	OK
53.001	TWD2	10	120.119	-0.127	0.000	0.39		35.3	OK
39.013	104	9	119.457	-0.213	0.000	1.09		728.2	OK
39.014	104A	8	119.213	-0.422	0.000	0.63		715.4	OK
55.000	BAR20	10	121.635	0.142	0.000	1.15		20.0	SURCHARGED
55.001	BAR21	10	120.968	-0.085	0.000	0.69		37.4	OK
56.000	BAR22	10	120.625	0.020	0.000	0.93		34.0	SURCHARGED
56.001	BAR23	10	120.504	0.035	0.000	1.33		43.6	SURCHARGED
55.002	BAR24	10	120.408	-0.006	0.000	1.00		81.5	OK
55.003	BAR25	10	120.098	-0.096	0.000	0.90		96.2	OK
55.004	BAR26	10	119.899	-0.217	0.000	0.37		115.0	OK
39.015	105	8	119.036	-0.438	0.000	0.58		790.0	OK
39.016	106	9	118.873	-1.274	0.000	0.10		750.8	OK
39.017	107	9	116.182	-0.365	0.000	0.40		745.5	OK
1.027	26	9	112.446	-0.462	0.000	0.36		1362.4	OK
1.028	27	9	109.596	-0.151	0.000	0.65		1356.7	FLOOD RISK*
1.029	28	9	106.658	-0.533	0.000	0.29		1317.9	OK
1.030	29	8	97.720	-0.757	0.000	0.22		1291.5	OK
1.031	30	9	93.178	-0.204	0.000	0.61		1262.5	FLOOD RISK*
1.032	31	9	92.117	-0.133	0.000	0.77		1206.8	FLOOD RISK*
1.033	32	18	91.585	-0.538	0.000	0.37		1168.6	OK
1.034	33	34	90.351	0.078	0.000	1.08		263.0	SURCHARGED*
57.000	108	11	91.647	-0.239	0.000	0.67		1090.5	FLOOD RISK*
57.001	109	17	91.388	-0.498	0.000	0.43		831.0	OK
57.002	110	19	91.005	-0.881	0.000	0.24		601.3	OK
1.035	109	46	90.051	0.185	0.000	0.35		84.0	SURCHARGED*
1.036	34	6	86.650	0.000	0.000	0.66		55.2	SURCHARGED*

M-EC		Page 283
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

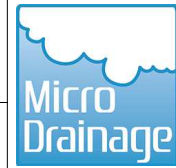
Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	1	13	117.176	0.321	0.000	0.22	17.3	SURCHARGED	
1.001	2	13	117.172	0.463	0.000	0.25	22.3	SURCHARGED	
1.002	3	13	117.167	0.679	0.000	0.18	22.0	SURCHARGED	
1.003	4	13	117.163	0.816	0.000	0.37	64.8	SURCHARGED	
2.000	5	14	118.465	-0.210	0.000	0.20	22.5	OK	
2.001	6	14	118.306	-0.155	0.000	0.47	48.2	OK	
2.002	6	16	118.047	-0.166	0.000	0.40	54.9	OK	
2.003	8	14	117.586	0.238	0.000	0.29	68.8	SURCHARGED	
3.000	9.1	16	118.326	-0.099	0.000	0.59	31.0	OK	
3.001	9	13	117.817	0.672	0.000	0.38	30.9	SURCHARGED	
3.002	10	13	117.802	0.819	0.000	0.38	40.6	SURCHARGED	
3.003	11	13	117.790	0.908	0.000	0.43	76.2	SURCHARGED	
4.000	12	13	117.701	0.415	0.000	0.25	26.0	SURCHARGED	
3.004	13	14	117.695	0.935	0.000	0.32	100.3	SURCHARGED	
3.005	14	14	117.628	1.075	0.000	0.56	137.6	SURCHARGED	
3.006	15	14	117.580	1.115	0.000	0.61	136.6	SURCHARGED	
2.004	16	14	117.577	1.134	0.000	0.59	203.9	SURCHARGED	
2.005	17	13	117.567	1.214	0.000	0.53	222.2	SURCHARGED	
5.000	18	13	117.430	0.543	0.000	0.12	14.6	SURCHARGED	
2.006	19	13	117.427	1.248	0.000	0.54	222.5	SURCHARGED	
2.007	20	13	117.287	1.280	0.000	0.57	229.2	SURCHARGED	
1.004	21	13	117.152	1.304	0.000	0.80	278.5	SURCHARGED	

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network




Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP

Micro Drainage Network 2016.1


Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	13	117.145	1.358	0.000	0.51		315.9	SURCHARGED
6.000	23	13	117.249	0.319	0.000	0.47		20.9	SURCHARGED
6.001	24	13	117.227	0.534	0.000	0.56		20.6	SURCHARGED
6.002	25	13	117.217	0.592	0.000	0.44		33.1	SURCHARGED
6.003	26	13	117.191	0.876	0.000	0.73		44.8	SURCHARGED
6.004	27	13	117.174	0.918	0.000	0.51		63.9	SURCHARGED
6.005	28	13	117.139	1.156	0.000	0.24		56.3	SURCHARGED
1.006	29	13	117.133	1.503	0.000	0.47		389.1	SURCHARGED
7.000	30	14	118.128	-0.132	0.000	0.35		13.8	OK
7.001	31	14	117.949	-0.146	0.000	0.27		31.3	OK
1.007	8	13	116.953	1.612	0.000	0.51		379.7	SURCHARGED
8.000	60	13	116.802	-0.054	0.000	0.24		9.3	OK
8.001	61	13	116.797	0.113	0.000	0.10		10.7	SURCHARGED
8.002	35	13	116.795	0.367	0.000	0.06		15.5	SURCHARGED
1.008	10	13	116.792	1.713	0.000	1.03		343.2	SURCHARGED
9.000	62	14	119.134	-0.166	0.000	0.41		34.1	OK
10.000	40	14	119.064	0.096	0.000	1.63		100.3	SURCHARGED
9.001	63	14	118.878	-0.101	0.000	0.88		147.8	OK
9.002	64	14	118.309	-0.209	0.000	0.41		187.0	OK
9.003	148	13	116.933	1.667	0.000	0.71		182.6	SURCHARGED
1.009	11	13	116.784	1.724	0.000	0.68		499.4	SURCHARGED
1.010	12	13	116.768	1.792	0.000	1.26		470.8	SURCHARGED
1.011	13	13	116.758	1.804	0.000	1.06		461.9	SURCHARGED
1.012	14	13	116.745	1.824	0.000	0.47		443.0	SURCHARGED
1.013	15	13	116.736	1.866	0.000	0.97		441.2	SURCHARGED
1.014	16	13	116.727	1.880	0.000	0.48		438.6	SURCHARGED
11.000	TWC16	14	117.720	-0.121	0.000	0.43		42.1	OK
11.001	TWC17	13	116.726	1.066	0.000	0.32		39.8	SURCHARGED
1.015	17	13	116.717	1.847	0.000	0.32		457.5	SURCHARGED
1.016	18	13	116.708	1.941	0.000	0.34		452.7	SURCHARGED
12.000	TWC1	14	117.672	-0.129	0.000	0.38		14.0	OK
12.001	TWC2	15	117.528	-0.108	0.000	0.53		20.3	OK
12.002	TWC3	15	117.452	0.082	0.000	1.17		40.1	SURCHARGED
12.003	TWC4	16	117.354	0.057	0.000	1.21		40.1	SURCHARGED
13.000	TWC5	14	118.202	-0.088	0.000	0.63		24.1	OK
13.001	TWC6	14	118.113	0.045	0.000	1.15		42.8	SURCHARGED
13.002	TWC7	14	117.821	-0.077	0.000	0.76		54.0	OK
12.004	TWC8	16	117.274	0.032	0.000	1.08		104.1	SURCHARGED
12.005	TWC9	16	117.187	0.019	0.000	1.28		113.4	SURCHARGED
12.006	TWC10	16	116.984	-0.136	0.000	0.72		117.1	OK
1.017	TWC11	13	116.699	2.032	0.000	0.37		541.9	SURCHARGED
1.018	19	13	116.690	2.097	0.000	0.26		539.1	SURCHARGED
14.000	TWC12	15	117.257	-0.152	0.000	0.23		8.5	OK
14.001	TWC13	16	117.080	-0.172	0.000	0.13		16.0	OK
14.002	TWC14	13	116.684	0.405	0.000	0.41		32.1	SURCHARGED
1.019	TWC15	13	116.681	2.353	0.000	0.44		554.4	SURCHARGED
15.000	65	16	117.220	-0.149	0.000	0.50		34.2	OK
16.000	136	14	118.054	-0.160	0.000	0.18		10.9	OK
16.001	137	14	117.751	-0.156	0.000	0.21		11.6	OK

M-EC		Page 285
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	15	117.501	-0.218	0.000	0.16		21.2	OK
15.001	66	18	117.028	-0.158	0.000	0.63		73.9	OK
15.002	67	18	116.966	-0.078	0.000	0.73		83.2	OK
17.000	9	16	117.321	-0.263	0.000	0.04		2.9	OK
17.001	75	16	117.201	-0.196	0.000	0.26		19.7	OK
17.002	76	18	116.919	-0.301	0.000	0.09		37.8	OK
15.003	68	18	116.912	-0.033	0.000	0.54		129.6	OK
15.004	69	15	116.818	0.001	0.000	0.49		154.5	SURCHARGED
15.005	70	15	116.784	0.056	0.000	0.55		153.7	SURCHARGED
15.006	71	15	116.777	0.103	0.000	0.57		176.9	SURCHARGED
18.000	147	17	116.843	-0.128	0.000	0.18		6.9	OK
18.001	112	17	116.830	-0.017	0.000	0.30		15.8	OK
18.002	113	18	116.803	0.000	0.000	0.15		18.6	OK
19.000	115	15	117.315	-0.179	0.000	0.09		4.5	OK
19.001	116	16	117.067	-0.163	0.000	0.17		12.9	OK
18.003	77	15	116.779	0.029	0.000	0.25		30.9	SURCHARGED
20.000	134	16	117.270	-0.162	0.000	0.18		14.9	OK
18.004	135	15	116.776	0.076	0.000	0.32		53.6	SURCHARGED
18.005	78	15	116.772	0.127	0.000	0.34		59.9	SURCHARGED
15.007	72	15	116.768	0.170	0.000	0.81		230.5	SURCHARGED
15.008	73	13	116.752	0.298	0.000	1.13		240.4	SURCHARGED
15.009	74	13	116.739	0.328	0.000	1.48		240.1	SURCHARGED
15.010	98	13	116.729	0.344	0.000	0.85		229.7	SURCHARGED
15.011	99	13	116.712	0.429	0.000	0.74		208.9	SURCHARGED
15.012	101	13	116.691	0.592	0.000	0.74		203.1	SURCHARGED
21.000	142	16	117.160	-0.129	0.000	0.37		17.3	OK
21.001	143	16	116.783	-0.084	0.000	0.44		26.0	OK
22.000	118	18	117.110	-0.196	0.000	0.04		1.2	OK
22.001	119	18	117.074	-0.146	0.000	0.25		8.0	OK
22.002	120	18	117.034	-0.127	0.000	0.39		24.2	OK
23.000	129	14	116.840	-0.037	0.000	0.17		13.7	OK
23.001	130	13	116.836	0.094	0.000	0.16		16.6	SURCHARGED
22.003	121	13	116.831	0.337	0.000	0.83		53.7	SURCHARGED
24.000	131	18	116.975	-0.104	0.000	0.56		23.3	OK
24.001	132	17	116.847	0.064	0.000	1.14		30.8	SURCHARGED
24.002	133	13	116.834	0.093	0.000	0.28		36.2	SURCHARGED
22.004	122	13	116.823	0.399	0.000	0.53		95.6	SURCHARGED
22.005	123	13	116.801	0.472	0.000	0.71		107.9	SURCHARGED
25.000	139	17	116.819	-0.067	0.000	0.60		16.2	OK
25.001	140	15	116.811	0.037	0.000	0.59		36.3	SURCHARGED
22.006	124	13	116.792	0.531	0.000	1.00		149.5	SURCHARGED
22.007	125	13	116.777	0.570	0.000	0.52		141.9	SURCHARGED
22.008	126	13	116.771	0.612	0.000	0.27		147.9	SURCHARGED
22.009	127	13	116.767	0.704	0.000	0.56		138.7	SURCHARGED
21.002	149	13	116.762	0.747	0.000	0.20		156.6	SURCHARGED
1.020	20	13	116.671	3.117	0.000	6.98		462.5	SURCHARGED
1.021	108	12	115.926	2.381	0.000	1.82		457.6	SURCHARGED
1.022	21	12	115.690	2.281	0.000	1.75		447.2	SURCHARGED
1.023	22	12	115.371	2.150	0.000	1.83		446.5	SURCHARGED

M-EC		Page 286
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	14	119.354	-0.584	0.000	0.04		31.8	OK
26.001	90	14	119.029	-0.578	0.000	0.05		37.6	OK
27.000	200	14	119.584	-0.232	0.000	0.12		18.2	OK
27.001	109	14	118.886	-0.393	0.000	0.14		20.4	OK
26.002	91	14	118.660	-0.588	0.000	0.10		58.1	OK
28.000	TWD27	14	119.427	-0.190	0.000	0.29		37.1	OK
26.003	91A	14	118.539	-0.623	0.000	0.13		102.3	OK
26.004	92	14	118.475	-0.589	0.000	0.18		116.8	OK
26.005	93	14	118.393	-0.610	0.000	0.15		117.0	OK
29.000	TWD29	14	119.449	-0.116	0.000	0.47		16.9	OK
29.001	TWD30	14	119.297	-0.161	0.000	0.44		28.0	OK
29.002	TWD31	14	119.143	-0.205	0.000	0.22		37.6	OK
26.006	94	14	118.292	-0.574	0.000	0.20		155.8	OK
26.007	95	14	118.184	-0.571	0.000	0.21		159.9	OK
30.000	201	14	119.253	-0.188	0.000	0.29		24.7	OK
30.001	202	14	119.037	-0.153	0.000	0.45		33.6	OK
30.002	203	14	119.002	-0.099	0.000	0.77		58.1	OK
30.003	204	14	118.756	-0.227	0.000	0.33		68.4	OK
30.004	117	14	118.530	-0.141	0.000	0.70		73.0	OK
26.008	95A	14	118.099	-0.512	0.000	0.31		244.1	OK
26.009	96	14	117.893	-0.540	0.000	0.26		244.5	OK
26.010	97	14	117.474	-0.564	0.000	0.22		242.7	OK
31.000	121	14	117.177	-0.443	0.000	0.43		157.4	OK
32.000	TWD4	14	120.104	-0.157	0.000	0.20		9.9	OK
32.001	TWD5	14	119.919	-0.130	0.000	0.37		21.7	OK
33.000	TWD16	14	119.571	-0.140	0.000	0.55		35.9	OK
32.002	TWD6	14	119.420	-0.168	0.000	0.58		62.3	OK
34.000	TWD17	14	119.560	-0.147	0.000	0.26		13.5	OK
35.000	TWD18	14	119.486	-0.152	0.000	0.23		9.5	OK
32.003	TWD7	14	119.264	-0.176	0.000	0.55		90.9	OK
32.004	TWD8	14	118.770	-0.213	0.000	0.55		111.6	OK
32.005	TWD9	14	118.681	-0.170	0.000	0.70		118.7	OK
32.006	TWD10	14	118.633	-0.168	0.000	0.71		119.6	OK
36.000	TWD19	14	119.612	-0.109	0.000	0.52		35.8	OK
32.007	TWD11	14	117.601	-0.120	0.000	1.06		159.6	OK
37.000	TWD20	14	119.355	-0.131	0.000	0.36		13.7	OK
37.001	TWD21	14	119.105	-0.166	0.000	0.41		27.3	OK
37.002	TWD22	14	118.929	-0.137	0.000	0.57		38.6	OK
37.003	TWD23	14	118.666	-0.194	0.000	0.47		50.0	OK
37.004	TWD24	14	118.545	-0.241	0.000	0.28		58.3	OK
37.005	TWD25	14	118.061	-0.237	0.000	0.29		66.0	OK
32.008	TWD12	14	117.485	-0.215	0.000	0.67		236.2	OK
38.000	TWD26	14	119.289	-0.161	0.000	0.18		17.7	OK
32.009	TWD13	14	117.391	-0.224	0.000	0.59		257.0	OK
32.010	TWD14	14	117.335	-0.212	0.000	0.64		261.9	OK
32.011	TWD15	14	117.288	-0.207	0.000	0.87		273.2	OK
26.011	98	14	116.932	-0.656	0.000	0.30		654.1	OK
26.012	99	14	116.478	-0.542	0.000	0.39		652.9	OK
26.013	100	14	116.413	-0.316	0.000	0.83		650.4	OK

M-EC		Page 287
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	12	115.214	2.082	0.000	2.49	646.7	646.7	SURCHARGED
1.025	24	15	113.952	1.026	0.000	2.52	643.7	643.7	SURCHARGED
1.026	25	14	113.099	0.310	0.000	1.01	644.1	644.1	SURCHARGED
39.000	79	14	121.690	-0.483	0.000	0.02	7.6	7.6	OK
39.001	80	14	121.305	-0.454	0.000	0.04	21.3	21.3	OK
39.002	81	14	120.746	-0.581	0.000	0.05	26.3	26.3	OK
40.000	130	14	121.052	-0.149	0.000	0.25	8.4	8.4	OK
41.000	BAR1	14	121.723	-0.082	0.000	0.42	12.1	12.1	OK
41.001	131	14	120.921	-0.253	0.000	0.23	21.7	21.7	OK
39.003	81A	14	120.601	-0.533	0.000	0.10	60.0	60.0	OK
42.000	133	14	120.703	-0.243	0.000	0.08	4.6	4.6	OK
39.004	82	14	120.344	-0.561	0.000	0.14	75.9	75.9	OK
39.005	83	14	120.259	-0.576	0.000	0.12	76.0	76.0	OK
43.000	BAR2	14	121.555	-0.074	0.000	0.51	15.8	15.8	OK
43.001	136	14	120.470	-0.222	0.000	0.35	25.5	25.5	OK
39.006	83A	14	120.143	-0.527	0.000	0.18	108.1	108.1	OK
44.000	206	14	120.621	-0.236	0.000	0.15	15.9	15.9	OK
44.001	207	14	120.614	-0.205	0.000	0.16	19.0	19.0	OK
44.002	208	14	120.602	-0.174	0.000	0.24	32.2	32.2	OK
44.003	209	14	120.566	-0.138	0.000	0.36	32.8	32.8	OK
45.000	210	14	120.930	-0.155	0.000	0.21	9.5	9.5	OK
45.001	211	14	120.747	-0.195	0.000	0.26	17.3	17.3	OK
45.002	212	14	120.571	-0.185	0.000	0.24	25.3	25.3	OK
44.004	213	14	120.555	-0.127	0.000	0.71	73.6	73.6	OK
44.005	214	14	120.521	-0.125	0.000	0.58	77.2	77.2	OK
44.006	215	14	120.478	-0.103	0.000	0.95	90.0	90.0	OK
44.007	138	14	120.386	-0.171	0.000	0.70	89.9	89.9	OK
39.007	84	14	120.050	-0.475	0.000	0.36	214.6	214.6	OK
46.000	BAR4	14	121.609	-0.100	0.000	0.59	22.1	22.1	OK
46.001	BAR5	14	121.462	-0.026	0.000	0.84	30.2	30.2	OK
47.000	BAR6	14	122.079	-0.072	0.000	0.53	9.0	9.0	OK
47.001	BAR7	14	121.767	-0.104	0.000	0.56	20.4	20.4	OK
47.002	BAR8	14	121.614	-0.113	0.000	0.49	28.6	28.6	OK
46.002	BAR9	14	121.379	0.000	0.000	1.05	64.6	64.6	OK
46.003	BAR10	14	121.152	-0.149	0.000	0.50	81.3	81.3	OK
46.004	140	14	120.320	-0.175	0.000	0.67	80.9	80.9	OK
39.008	85	14	119.998	-0.470	0.000	0.39	296.3	296.3	OK
39.009	86	14	119.863	-0.471	0.000	0.38	308.5	308.5	OK
48.000	BAR3	14	120.856	-0.092	0.000	0.32	10.6	10.6	OK
48.001	143	14	119.860	-0.314	0.000	0.20	22.3	22.3	OK
49.000	216	14	120.459	-0.211	0.000	0.19	33.1	33.1	OK
49.001	144	14	119.902	-0.293	0.000	0.26	35.0	35.0	OK
39.010	87	14	119.634	-0.518	0.000	0.38	362.0	362.0	OK
39.011	88	14	119.535	-0.472	0.000	0.44	419.7	419.7	OK
39.012	103	14	119.437	-0.414	0.000	0.47	451.1	451.1	OK
50.000	BAR11	14	121.382	-0.063	0.000	0.63	10.9	10.9	OK
50.001	BAR12	14	121.029	-0.109	0.000	0.52	26.4	26.4	OK
51.000	BAR13	14	120.838	-0.130	0.000	0.14	4.3	4.3	OK
50.002	BAR14	14	120.832	-0.087	0.000	0.68	36.7	36.7	OK

M-EC		Page 288
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	14	120.886	-0.065	0.000	0.61		10.2	OK
52.001	BAR16	14	120.618	-0.108	0.000	0.42		18.4	OK
50.003	BAR17	14	120.593	-0.025	0.000	0.94		57.8	OK
50.004	BAR18	14	120.527	-0.014	0.000	1.00		63.1	OK
50.005	BAR19	14	120.282	-0.167	0.000	0.41		71.3	OK
50.006	149	14	119.479	-0.246	0.000	0.42		71.4	OK
53.000	TWD1	14	120.456	-0.158	0.000	0.19		7.4	OK
54.000	TWD3	14	120.691	-0.191	0.000	0.05		4.7	OK
53.001	TWD2	14	120.099	-0.147	0.000	0.26		23.1	OK
39.013	104	14	119.335	-0.335	0.000	0.81		540.1	OK
39.014	104A	14	119.119	-0.516	0.000	0.48		541.2	OK
55.000	BAR20	14	121.446	-0.047	0.000	0.80		14.0	OK
55.001	BAR21	14	120.939	-0.114	0.000	0.48		26.1	OK
56.000	BAR22	14	120.509	-0.096	0.000	0.62		22.6	OK
56.001	BAR23	14	120.411	-0.058	0.000	0.89		29.3	OK
55.002	BAR24	14	120.301	-0.113	0.000	0.71		57.6	OK
55.003	BAR25	14	120.036	-0.158	0.000	0.63		67.8	OK
55.004	BAR26	14	119.870	-0.246	0.000	0.26		80.7	OK
39.015	105	14	118.950	-0.524	0.000	0.44		602.2	OK
39.016	106	14	118.792	-1.355	0.000	0.08		591.8	OK
39.017	107	14	116.110	-0.437	0.000	0.32		591.0	OK
1.027	26	14	112.403	-0.505	0.000	0.32		1216.7	OK
1.028	27	14	109.559	-0.188	0.000	0.58		1213.5	FLOOD RISK*
1.029	28	14	106.623	-0.568	0.000	0.26		1202.0	OK
1.030	29	14	97.686	-0.791	0.000	0.20		1193.1	OK
1.031	30	13	93.147	-0.235	0.000	0.57		1181.8	FLOOD RISK*
1.032	31	10	92.092	-0.158	0.000	0.74		1158.3	FLOOD RISK*
1.033	32	19	91.573	-0.550	0.000	0.36		1137.5	OK
1.034	33	27	90.711	0.438	0.000	1.10		268.3	SURCHARGED*
57.000	108	21	91.475	-0.411	0.000	0.50		808.5	OK
57.001	109	24	91.284	-0.602	0.000	0.36		699.4	OK
57.002	110	22	90.982	-0.904	0.000	0.23		571.9	OK
1.035	109	27	90.441	0.575	0.000	0.32		78.1	SURCHARGED*
1.036	34	5	86.650	0.000	0.000	0.70		58.1	SURCHARGED*



M-EC		Page 289
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	1	16	117.014	0.159	0.000	0.13	10.7	SURCHARGED	
1.001	2	16	117.009	0.300	0.000	0.15	13.5	SURCHARGED	
1.002	3	16	117.002	0.514	0.000	0.11	13.4	SURCHARGED	
1.003	4	16	116.998	0.651	0.000	0.22	39.4	SURCHARGED	
2.000	5	22	118.444	-0.231	0.000	0.12	13.9	OK	
2.001	6	21	118.270	-0.191	0.000	0.29	29.6	OK	
2.002	6	21	118.014	-0.199	0.000	0.25	33.8	OK	
2.003	8	16	117.421	0.073	0.000	0.18	42.4	SURCHARGED	
3.000	9.1	22	118.294	-0.131	0.000	0.37	19.2	OK	
3.001	9	16	117.737	0.592	0.000	0.24	19.2	SURCHARGED	
3.002	10	16	117.723	0.740	0.000	0.24	25.6	SURCHARGED	
3.003	11	15	117.713	0.831	0.000	0.27	47.1	SURCHARGED	
4.000	12	15	117.624	0.338	0.000	0.16	16.0	SURCHARGED	
3.004	13	16	117.617	0.857	0.000	0.20	62.2	SURCHARGED	
3.005	14	16	117.519	0.966	0.000	0.35	85.1	SURCHARGED	
3.006	15	16	117.413	0.948	0.000	0.39	86.5	SURCHARGED	
2.004	16	16	117.409	0.966	0.000	0.36	126.5	SURCHARGED	
2.005	17	16	117.397	1.044	0.000	0.34	142.0	SURCHARGED	
5.000	18	16	117.261	0.374	0.000	0.08	9.0	SURCHARGED	
2.006	19	16	117.257	1.078	0.000	0.35	145.6	SURCHARGED	
2.007	20	16	117.117	1.110	0.000	0.36	144.6	SURCHARGED	
1.004	21	16	116.983	1.135	0.000	0.51	177.9	SURCHARGED	

M-EC		Page 290
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	16	116.975	1.188	0.000	0.33		201.8	SURCHARGED
6.000	23	16	117.024	0.094	0.000	0.29		12.9	SURCHARGED
6.001	24	16	117.010	0.317	0.000	0.35		12.8	SURCHARGED
6.002	25	16	117.004	0.379	0.000	0.27		20.4	SURCHARGED
6.003	26	16	116.990	0.675	0.000	0.45		27.5	SURCHARGED
6.004	27	16	116.983	0.727	0.000	0.31		39.5	SURCHARGED
6.005	28	16	116.967	0.984	0.000	0.15		35.0	SURCHARGED
1.006	29	16	116.961	1.331	0.000	0.29		243.0	SURCHARGED
7.000	30	22	118.106	-0.154	0.000	0.22		8.5	OK
7.001	31	21	117.930	-0.165	0.000	0.16		19.2	OK
1.007	8	16	116.782	1.441	0.000	0.30		224.8	SURCHARGED
8.000	60	25	116.689	-0.167	0.000	0.15		5.8	OK
8.001	61	16	116.628	-0.056	0.000	0.06		6.6	OK
8.002	35	16	116.625	0.197	0.000	0.04		9.4	SURCHARGED
1.008	10	16	116.621	1.542	0.000	0.66		219.5	SURCHARGED
9.000	62	22	119.102	-0.198	0.000	0.25		21.0	OK
10.000	40	21	118.921	-0.047	0.000	1.00		61.4	OK
9.001	63	21	118.800	-0.179	0.000	0.54		90.5	OK
9.002	64	21	118.270	-0.248	0.000	0.25		115.0	OK
9.003	148	16	116.767	1.501	0.000	0.44		111.8	SURCHARGED
1.009	11	16	116.612	1.552	0.000	0.42		308.3	SURCHARGED
1.010	12	16	116.596	1.620	0.000	0.84		312.2	SURCHARGED
1.011	13	16	116.586	1.632	0.000	0.72		313.8	SURCHARGED
1.012	14	16	116.573	1.652	0.000	0.33		314.8	SURCHARGED
1.013	15	16	116.563	1.693	0.000	0.69		313.5	SURCHARGED
1.014	16	16	116.554	1.707	0.000	0.34		312.1	SURCHARGED
11.000	TWC16	22	117.695	-0.146	0.000	0.27		26.1	OK
11.001	TWC17	16	116.553	0.893	0.000	0.19		24.0	SURCHARGED
1.015	17	16	116.544	1.674	0.000	0.23		326.0	SURCHARGED
1.016	18	16	116.534	1.767	0.000	0.25		335.4	SURCHARGED
12.000	TWC1	22	117.649	-0.152	0.000	0.23		8.6	OK
12.001	TWC2	21	117.499	-0.137	0.000	0.33		12.5	OK
12.002	TWC3	20	117.287	-0.083	0.000	0.72		24.9	OK
12.003	TWC4	20	117.219	-0.078	0.000	0.75		24.8	OK
13.000	TWC5	22	118.163	-0.127	0.000	0.39		14.9	OK
13.001	TWC6	21	117.985	-0.083	0.000	0.72		26.9	OK
13.002	TWC7	20	117.782	-0.116	0.000	0.48		33.9	OK
12.004	TWC8	20	117.112	-0.130	0.000	0.68		65.3	OK
12.005	TWC9	20	117.051	-0.117	0.000	0.81		71.4	OK
12.006	TWC10	22	116.923	-0.197	0.000	0.46		73.8	OK
1.017	TWC11	16	116.524	1.857	0.000	0.26		379.4	SURCHARGED
1.018	19	16	116.513	1.920	0.000	0.18		378.1	SURCHARGED
14.000	TWC12	22	117.240	-0.169	0.000	0.14		5.2	OK
14.001	TWC13	21	117.068	-0.184	0.000	0.08		9.8	OK
14.002	TWC14	16	116.507	0.228	0.000	0.25		19.7	SURCHARGED
1.019	TWC15	16	116.503	2.175	0.000	0.31		389.3	SURCHARGED
15.000	65	22	117.183	-0.186	0.000	0.31		21.1	OK
16.000	136	22	118.039	-0.175	0.000	0.11		6.7	OK
16.001	137	22	117.735	-0.172	0.000	0.13		7.2	OK

M-EC		Page 291
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	21	117.482	-0.237	0.000	0.10		13.0	OK
15.001	66	25	116.972	-0.214	0.000	0.38		45.4	OK
15.002	67	21	116.949	-0.095	0.000	0.45		51.2	OK
17.000	9	22	117.314	-0.270	0.000	0.02		1.8	OK
17.001	75	20	117.176	-0.221	0.000	0.16		12.1	OK
17.002	76	20	116.915	-0.305	0.000	0.06		23.1	OK
15.003	68	17	116.912	-0.033	0.000	0.35		83.6	OK
15.004	69	18	116.817	0.000	0.000	0.32		100.0	OK
15.005	70	20	116.728	0.000	0.000	0.35		98.3	OK
15.006	71	20	116.674	0.000	0.000	0.36		113.4	OK
18.000	147	24	116.796	-0.175	0.000	0.11		4.3	OK
18.001	112	20	116.737	-0.110	0.000	0.19		9.8	OK
18.002	113	20	116.733	-0.070	0.000	0.10		12.7	OK
19.000	115	22	117.304	-0.190	0.000	0.06		2.8	OK
19.001	116	21	117.053	-0.177	0.000	0.10		7.9	OK
18.003	77	20	116.727	-0.023	0.000	0.18		22.2	OK
20.000	134	22	117.256	-0.176	0.000	0.11		9.2	OK
18.004	135	20	116.700	0.000	0.000	0.22		37.8	OK
18.005	78	19	116.645	0.000	0.000	0.24		41.6	OK
15.007	72	21	116.598	0.000	0.000	0.55		158.3	OK
15.008	73	17	116.577	0.123	0.000	0.76		162.5	SURCHARGED
15.009	74	16	116.564	0.153	0.000	0.99		160.3	SURCHARGED
15.010	98	16	116.553	0.168	0.000	0.59		158.8	SURCHARGED
15.011	99	16	116.535	0.252	0.000	0.50		142.0	SURCHARGED
15.012	101	16	116.512	0.413	0.000	0.52		143.5	SURCHARGED
21.000	142	22	117.137	-0.152	0.000	0.23		10.7	OK
21.001	143	24	116.721	-0.146	0.000	0.27		16.0	OK
22.000	118	24	117.104	-0.202	0.000	0.02		0.7	OK
22.001	119	22	117.054	-0.166	0.000	0.16		4.9	OK
22.002	120	22	117.010	-0.151	0.000	0.24		14.9	OK
23.000	129	17	116.724	-0.153	0.000	0.10		8.4	OK
23.001	130	17	116.720	-0.022	0.000	0.10		10.3	OK
22.003	121	16	116.716	0.222	0.000	0.51		33.0	SURCHARGED
24.000	131	24	116.945	-0.134	0.000	0.34		14.4	OK
24.001	132	20	116.736	-0.046	0.000	0.70		19.0	OK
24.002	133	16	116.723	-0.018	0.000	0.17		22.3	OK
22.004	122	15	116.708	0.284	0.000	0.31		57.2	SURCHARGED
22.005	123	17	116.679	0.351	0.000	0.43		64.6	SURCHARGED
25.000	139	25	116.755	-0.131	0.000	0.37		10.0	OK
25.001	140	20	116.690	-0.084	0.000	0.36		22.4	OK
22.006	124	16	116.670	0.408	0.000	0.60		89.8	SURCHARGED
22.007	125	16	116.650	0.444	0.000	0.33		88.9	SURCHARGED
22.008	126	16	116.644	0.484	0.000	0.17		94.2	SURCHARGED
22.009	127	16	116.638	0.575	0.000	0.37		91.3	SURCHARGED
21.002	149	16	116.634	0.619	0.000	0.12		97.8	SURCHARGED
1.020	20	16	116.493	2.939	0.000	6.33		419.4	SURCHARGED
1.021	108	18	115.754	2.209	0.000	1.67		419.8	SURCHARGED
1.022	21	18	115.522	2.113	0.000	1.64		417.8	SURCHARGED
1.023	22	20	115.210	1.989	0.000	1.71		417.9	SURCHARGED

M-EC		Page 292
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	22	119.337	-0.601	0.000	0.03		19.7	OK
26.001	90	22	119.009	-0.598	0.000	0.03		23.3	OK
27.000	200	22	119.569	-0.247	0.000	0.07		11.2	OK
27.001	109	22	118.858	-0.421	0.000	0.09		12.6	OK
26.002	91	22	118.621	-0.627	0.000	0.06		35.8	OK
28.000	TWD27	22	119.401	-0.216	0.000	0.18		22.9	OK
26.003	91A	22	118.495	-0.667	0.000	0.08		63.0	OK
26.004	92	21	118.421	-0.643	0.000	0.11		71.7	OK
26.005	93	21	118.347	-0.656	0.000	0.09		71.5	OK
29.000	TWD29	22	119.423	-0.142	0.000	0.29		10.5	OK
29.001	TWD30	21	119.263	-0.195	0.000	0.27		17.3	OK
29.002	TWD31	21	119.120	-0.228	0.000	0.13		23.2	OK
26.006	94	21	118.234	-0.632	0.000	0.12		95.5	OK
26.007	95	21	118.126	-0.629	0.000	0.13		98.2	OK
30.000	201	22	119.227	-0.214	0.000	0.18		15.3	OK
30.001	202	21	118.997	-0.193	0.000	0.28		20.7	OK
30.002	203	21	118.947	-0.154	0.000	0.48		35.9	OK
30.003	204	21	118.722	-0.261	0.000	0.20		42.2	OK
30.004	117	20	118.468	-0.203	0.000	0.43		44.8	OK
26.008	95A	21	118.028	-0.583	0.000	0.19		150.9	OK
26.009	96	21	117.828	-0.605	0.000	0.16		150.4	OK
26.010	97	20	117.414	-0.624	0.000	0.14		151.0	OK
31.000	121	22	117.085	-0.535	0.000	0.27		97.4	OK
32.000	TWD4	22	120.088	-0.173	0.000	0.12		6.1	OK
32.001	TWD5	21	119.896	-0.153	0.000	0.22		13.4	OK
33.000	TWD16	22	119.532	-0.179	0.000	0.34		22.2	OK
32.002	TWD6	21	119.368	-0.220	0.000	0.36		38.2	OK
34.000	TWD17	22	119.542	-0.165	0.000	0.16		8.3	OK
35.000	TWD18	22	119.469	-0.169	0.000	0.14		5.9	OK
32.003	TWD7	21	119.215	-0.225	0.000	0.34		56.0	OK
32.004	TWD8	21	118.713	-0.270	0.000	0.34		69.1	OK
32.005	TWD9	20	118.609	-0.242	0.000	0.44		73.7	OK
32.006	TWD10	20	118.560	-0.241	0.000	0.44		74.5	OK
36.000	TWD19	22	119.584	-0.137	0.000	0.32		22.1	OK
32.007	TWD11	20	117.478	-0.243	0.000	0.66		99.3	OK
37.000	TWD20	22	119.333	-0.153	0.000	0.22		8.4	OK
37.001	TWD21	21	119.072	-0.199	0.000	0.25		16.8	OK
37.002	TWD22	20	118.889	-0.177	0.000	0.35		23.8	OK
37.003	TWD23	19	118.623	-0.237	0.000	0.29		31.1	OK
37.004	TWD24	19	118.515	-0.271	0.000	0.17		36.3	OK
37.005	TWD25	19	118.030	-0.268	0.000	0.18		41.2	OK
32.008	TWD12	18	117.359	-0.341	0.000	0.42		147.5	OK
38.000	TWD26	22	119.274	-0.176	0.000	0.11		10.9	OK
32.009	TWD13	18	117.252	-0.363	0.000	0.37		162.1	OK
32.010	TWD14	18	117.194	-0.353	0.000	0.41		168.5	OK
32.011	TWD15	18	117.147	-0.348	0.000	0.56		176.0	OK
26.011	98	18	116.850	-0.738	0.000	0.19		420.0	OK
26.012	99	18	116.328	-0.692	0.000	0.25		420.4	OK
26.013	100	18	116.227	-0.502	0.000	0.54		419.8	OK

M-EC		Page 293
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	19	115.062	1.930	0.000	2.43		629.3	SURCHARGED
1.025	24	19	113.849	0.923	0.000	2.46		629.6	SURCHARGED
1.026	25	19	113.024	0.235	0.000	0.99		629.7	SURCHARGED
39.000	79	22	121.673	-0.500	0.000	0.01		4.7	OK
39.001	80	21	121.291	-0.468	0.000	0.03		13.0	OK
39.002	81	21	120.727	-0.600	0.000	0.03		16.1	OK
40.000	130	18	121.036	-0.165	0.000	0.16		5.3	OK
41.000	BAR1	22	121.707	-0.098	0.000	0.26		7.5	OK
41.001	131	21	120.892	-0.282	0.000	0.14		13.4	OK
39.003	81A	20	120.567	-0.567	0.000	0.06		37.2	OK
42.000	133	18	120.690	-0.256	0.000	0.05		2.9	OK
39.004	82	20	120.305	-0.600	0.000	0.09		47.1	OK
39.005	83	20	120.219	-0.616	0.000	0.07		46.9	OK
43.000	BAR2	22	121.536	-0.093	0.000	0.31		9.7	OK
43.001	136	21	120.434	-0.258	0.000	0.21		15.7	OK
39.006	83A	20	120.086	-0.584	0.000	0.11		67.2	OK
44.000	206	19	120.531	-0.326	0.000	0.10		10.1	OK
44.001	207	18	120.514	-0.305	0.000	0.11		12.7	OK
44.002	208	18	120.501	-0.275	0.000	0.16		21.5	OK
44.003	209	18	120.477	-0.227	0.000	0.23		21.4	OK
45.000	210	22	120.914	-0.171	0.000	0.13		5.9	OK
45.001	211	21	120.722	-0.220	0.000	0.16		10.7	OK
45.002	212	18	120.493	-0.263	0.000	0.15		16.0	OK
44.004	213	18	120.471	-0.211	0.000	0.47		48.5	OK
44.005	214	18	120.434	-0.212	0.000	0.38		50.6	OK
44.006	215	18	120.391	-0.190	0.000	0.63		59.1	OK
44.007	138	18	120.323	-0.234	0.000	0.46		59.2	OK
39.007	84	19	119.974	-0.551	0.000	0.23		137.3	OK
46.000	BAR4	22	121.578	-0.131	0.000	0.36		13.7	OK
46.001	BAR5	21	121.381	-0.107	0.000	0.54		19.3	OK
47.000	BAR6	22	122.060	-0.091	0.000	0.33		5.5	OK
47.001	BAR7	21	121.737	-0.134	0.000	0.34		12.6	OK
47.002	BAR8	21	121.586	-0.141	0.000	0.30		17.6	OK
46.002	BAR9	21	121.258	-0.121	0.000	0.66		40.9	OK
46.003	BAR10	20	121.117	-0.184	0.000	0.32		51.7	OK
46.004	140	20	120.251	-0.244	0.000	0.43		51.7	OK
39.008	85	19	119.920	-0.548	0.000	0.25		188.7	OK
39.009	86	19	119.786	-0.548	0.000	0.24		196.4	OK
48.000	BAR3	22	120.843	-0.105	0.000	0.20		6.5	OK
48.001	143	21	119.828	-0.346	0.000	0.12		13.7	OK
49.000	216	22	120.438	-0.232	0.000	0.12		20.4	OK
49.001	144	22	119.865	-0.330	0.000	0.16		21.7	OK
39.010	87	18	119.552	-0.600	0.000	0.24		230.5	OK
39.011	88	18	119.433	-0.574	0.000	0.28		268.6	OK
39.012	103	18	119.299	-0.552	0.000	0.30		291.2	OK
50.000	BAR11	22	121.360	-0.085	0.000	0.39		6.7	OK
50.001	BAR12	21	121.000	-0.138	0.000	0.32		16.2	OK
51.000	BAR13	21	120.803	-0.165	0.000	0.08		2.7	OK
50.002	BAR14	21	120.796	-0.123	0.000	0.42		22.6	OK

M-EC		Page 294
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	22	120.865	-0.086	0.000	0.38		6.3	OK
52.001	BAR16	21	120.578	-0.148	0.000	0.26		11.3	OK
50.003	BAR17	21	120.485	-0.133	0.000	0.59		36.5	OK
50.004	BAR18	21	120.416	-0.125	0.000	0.64		40.5	OK
50.005	BAR19	20	120.253	-0.196	0.000	0.26		45.6	OK
50.006	149	20	119.434	-0.291	0.000	0.27		45.6	OK
53.000	TWD1	22	120.440	-0.174	0.000	0.12		4.6	OK
54.000	TWD3	22	120.684	-0.198	0.000	0.03		2.9	OK
53.001	TWD2	21	120.081	-0.165	0.000	0.16		14.3	OK
39.013	104	18	119.162	-0.508	0.000	0.52		350.6	OK
39.014	104A	18	119.004	-0.631	0.000	0.31		352.8	OK
55.000	BAR20	22	121.418	-0.075	0.000	0.49		8.6	OK
55.001	BAR21	21	120.912	-0.141	0.000	0.30		16.1	OK
56.000	BAR22	22	120.476	-0.129	0.000	0.38		14.0	OK
56.001	BAR23	21	120.363	-0.106	0.000	0.55		18.0	OK
55.002	BAR24	21	120.252	-0.162	0.000	0.43		35.3	OK
55.003	BAR25	21	119.982	-0.212	0.000	0.39		41.7	OK
55.004	BAR26	20	119.841	-0.275	0.000	0.16		49.8	OK
39.015	105	18	118.834	-0.640	0.000	0.29		398.2	OK
39.016	106	18	118.672	-1.475	0.000	0.05		396.3	OK
39.017	107	18	116.004	-0.543	0.000	0.21		393.9	OK
1.027	26	19	112.343	-0.565	0.000	0.27		1020.2	OK
1.028	27	18	109.508	-0.239	0.000	0.49		1019.4	FLOOD RISK*
1.029	28	18	106.569	-0.622	0.000	0.22		1016.5	OK
1.030	29	19	97.630	-0.847	0.000	0.17		1013.9	OK
1.031	30	19	93.088	-0.294	0.000	0.49		1011.5	FLOOD RISK*
1.032	31	19	92.021	-0.229	0.000	0.64		1003.9	FLOOD RISK*
1.033	32	26	91.516	-0.607	0.000	0.32		996.4	OK
1.034	33	23	90.913	0.640	0.000	1.08		263.4	SURCHARGED*
57.000	108	26	91.276	-0.610	0.000	0.32		515.0	OK
57.001	109	26	91.103	-0.783	0.000	0.25		484.5	OK
57.002	110	29	90.871	-1.015	0.000	0.18		438.4	OK
1.035	109	24	90.720	0.854	0.000	0.27		64.4	SURCHARGED*
1.036	34	4	86.650	0.000	0.000	0.72		60.0	SURCHARGED*

M-EC		Page 295
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water Surcharged		Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	30	116.611	-0.244	0.000	0.08	6.4	OK
1.001	2	24	116.530	-0.179	0.000	0.09	8.3	OK
1.002	3	23	116.523	0.035	0.000	0.07	8.3	SURCHARGED
1.003	4	23	116.519	0.172	0.000	0.14	24.2	SURCHARGED
2.000	5	29	118.428	-0.247	0.000	0.07	8.3	OK
2.001	6	29	118.244	-0.217	0.000	0.17	17.7	OK
2.002	6	29	117.990	-0.223	0.000	0.15	20.3	OK
2.003	8	30	117.113	-0.235	0.000	0.11	25.4	OK
3.000	9.1	29	118.271	-0.154	0.000	0.22	11.5	OK
3.001	9	23	117.079	-0.066	0.000	0.14	11.5	OK
3.002	10	23	117.070	0.087	0.000	0.14	15.4	SURCHARGED
3.003	11	23	117.064	0.182	0.000	0.17	29.4	SURCHARGED
4.000	12	30	117.107	-0.179	0.000	0.09	9.6	OK
3.004	13	23	117.055	0.295	0.000	0.12	39.0	SURCHARGED
3.005	14	23	117.047	0.494	0.000	0.22	53.4	SURCHARGED
3.006	15	23	116.938	0.473	0.000	0.29	64.9	SURCHARGED
2.004	16	23	116.935	0.492	0.000	0.23	79.8	SURCHARGED
2.005	17	23	116.925	0.572	0.000	0.23	95.7	SURCHARGED
5.000	18	23	116.786	-0.101	0.000	0.05	5.4	OK
2.006	19	23	116.782	0.603	0.000	0.30	125.3	SURCHARGED
2.007	20	23	116.641	0.634	0.000	0.37	146.5	SURCHARGED
1.004	21	23	116.505	0.657	0.000	0.44	153.5	SURCHARGED

M-EC		Page 296
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.005	22	23	116.497	0.710	0.000	0.26	160.8	SURCHARGED
6.000	23	30	116.767	-0.163	0.000	0.17	7.7	OK
6.001	24	30	116.539	-0.154	0.000	0.21	7.7	OK
6.002	25	24	116.528	-0.097	0.000	0.17	12.6	OK
6.003	26	23	116.513	0.198	0.000	0.28	17.2	SURCHARGED
6.004	27	23	116.506	0.250	0.000	0.20	24.8	SURCHARGED
6.005	28	23	116.491	0.508	0.000	0.11	26.3	SURCHARGED
1.006	29	24	116.484	0.854	0.000	0.21	171.6	SURCHARGED
7.000	30	29	118.089	-0.171	0.000	0.13	5.1	OK
7.001	31	29	117.917	-0.178	0.000	0.10	11.5	OK
1.007	8	24	116.301	0.960	0.000	0.23	172.4	SURCHARGED
8.000	60	29	116.676	-0.180	0.000	0.09	3.5	OK
8.001	61	30	116.421	-0.263	0.000	0.04	4.0	OK
8.002	35	29	116.160	-0.268	0.000	0.02	5.8	OK
1.008	10	24	116.137	1.058	0.000	0.51	169.8	SURCHARGED
9.000	62	29	119.078	-0.222	0.000	0.15	12.6	OK
10.000	40	29	118.836	-0.132	0.000	0.60	37.1	OK
9.001	63	29	118.751	-0.228	0.000	0.32	54.5	OK
9.002	64	29	118.239	-0.279	0.000	0.15	69.1	OK
9.003	148	24	116.284	1.018	0.000	0.26	67.7	SURCHARGED
1.009	11	24	116.129	1.069	0.000	0.31	229.6	SURCHARGED
1.010	12	24	116.112	1.136	0.000	0.60	225.7	SURCHARGED
1.011	13	24	116.101	1.147	0.000	0.55	237.6	SURCHARGED
1.012	14	24	116.086	1.165	0.000	0.25	235.3	SURCHARGED
1.013	15	24	116.076	1.206	0.000	0.51	234.0	SURCHARGED
1.014	16	24	116.066	1.219	0.000	0.26	240.3	SURCHARGED
11.000	TWC16	29	117.676	-0.165	0.000	0.16	15.6	OK
11.001	TWC17	24	116.067	0.407	0.000	0.12	15.5	SURCHARGED
1.015	17	24	116.055	1.185	0.000	0.18	253.1	SURCHARGED
1.016	18	24	116.045	1.278	0.000	0.19	254.0	SURCHARGED
12.000	TWC1	29	117.632	-0.169	0.000	0.14	5.2	OK
12.001	TWC2	29	117.478	-0.158	0.000	0.20	7.5	OK
12.002	TWC3	29	117.248	-0.122	0.000	0.43	14.9	OK
12.003	TWC4	29	117.178	-0.119	0.000	0.45	14.9	OK
13.000	TWC5	29	118.139	-0.151	0.000	0.24	8.9	OK
13.001	TWC6	29	117.946	-0.122	0.000	0.43	16.1	OK
13.002	TWC7	29	117.755	-0.143	0.000	0.29	20.3	OK
12.004	TWC8	29	117.042	-0.200	0.000	0.41	39.2	OK
12.005	TWC9	29	116.977	-0.191	0.000	0.49	42.9	OK
12.006	TWC10	29	116.878	-0.242	0.000	0.27	44.4	OK
1.017	TWC11	24	116.034	1.367	0.000	0.17	252.8	SURCHARGED
1.018	19	24	116.023	1.430	0.000	0.12	255.3	SURCHARGED
14.000	TWC12	29	117.228	-0.181	0.000	0.08	3.1	OK
14.001	TWC13	29	117.058	-0.194	0.000	0.05	5.9	OK
14.002	TWC14	30	116.112	-0.167	0.000	0.15	11.8	OK
1.019	TWC15	24	116.013	1.685	0.000	0.20	257.8	SURCHARGED
15.000	65	29	117.156	-0.213	0.000	0.18	12.6	OK
16.000	136	29	118.027	-0.187	0.000	0.07	4.0	OK
16.001	137	29	117.723	-0.184	0.000	0.08	4.3	OK



M-EC		Page 297
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	29	117.467	-0.252	0.000	0.06		7.8	OK
15.001	66	30	116.932	-0.254	0.000	0.23		27.2	OK
15.002	67	30	116.801	-0.243	0.000	0.27		30.7	OK
17.000	9	29	117.303	-0.281	0.000	0.01		1.1	OK
17.001	75	29	117.159	-0.238	0.000	0.09		7.2	OK
17.002	76	30	116.758	-0.462	0.000	0.03		13.8	OK
15.003	68	30	116.582	-0.363	0.000	0.21		50.1	OK
15.004	69	30	116.411	-0.406	0.000	0.19		60.5	OK
15.005	70	28	116.373	-0.355	0.000	0.21		60.3	OK
15.006	71	28	116.359	-0.315	0.000	0.23		70.0	OK
18.000	147	29	116.784	-0.187	0.000	0.07		2.6	OK
18.001	112	30	116.614	-0.233	0.000	0.11		5.9	OK
18.002	113	30	116.445	-0.358	0.000	0.06		7.7	OK
19.000	115	29	117.296	-0.198	0.000	0.03		1.7	OK
19.001	116	29	117.041	-0.189	0.000	0.06		4.7	OK
18.003	77	30	116.406	-0.344	0.000	0.11		13.9	OK
20.000	134	29	117.244	-0.188	0.000	0.06		5.5	OK
18.004	135	29	116.358	-0.342	0.000	0.14		24.0	OK
18.005	78	28	116.346	-0.299	0.000	0.16		27.2	OK
15.007	72	26	116.337	-0.261	0.000	0.36		101.5	OK
15.008	73	23	116.292	-0.162	0.000	0.50		106.6	OK
15.009	74	23	116.263	-0.148	0.000	0.66		106.5	OK
15.010	98	23	116.247	-0.138	0.000	0.40		106.3	OK
15.011	99	23	116.184	-0.099	0.000	0.37		105.1	OK
15.012	101	24	116.099	0.000	0.000	0.39		108.7	OK
21.000	142	29	117.119	-0.170	0.000	0.14		6.4	OK
21.001	143	29	116.702	-0.165	0.000	0.16		9.6	OK
22.000	118	29	117.095	-0.211	0.000	0.01		0.4	OK
22.001	119	29	117.041	-0.179	0.000	0.09		2.9	OK
22.002	120	29	116.992	-0.169	0.000	0.14		8.9	OK
23.000	129	30	116.625	-0.252	0.000	0.06		5.0	OK
23.001	130	30	116.490	-0.252	0.000	0.06		6.1	OK
22.003	121	24	116.420	-0.074	0.000	0.30		19.8	OK
24.000	131	29	116.923	-0.156	0.000	0.21		8.6	OK
24.001	132	30	116.659	-0.124	0.000	0.42		11.4	OK
24.002	133	30	116.505	-0.235	0.000	0.10		13.4	OK
22.004	122	24	116.412	-0.012	0.000	0.19		35.5	OK
22.005	123	24	116.348	0.019	0.000	0.27		40.5	SURCHARGED
25.000	139	29	116.732	-0.154	0.000	0.22		6.0	OK
25.001	140	30	116.620	-0.154	0.000	0.22		13.4	OK
22.006	124	24	116.300	0.038	0.000	0.38		56.5	SURCHARGED
22.007	125	24	116.206	0.000	0.000	0.21		57.2	OK
22.008	126	24	116.159	0.000	0.000	0.12		63.8	OK
22.009	127	24	116.105	0.042	0.000	0.28		69.5	SURCHARGED
21.002	149	24	116.101	0.086	0.000	0.09		74.7	SURCHARGED
1.020	20	24	116.001	2.447	0.000	5.57		369.0	SURCHARGED
1.021	108	24	115.185	1.640	0.000	1.47		369.6	SURCHARGED
1.022	21	24	114.938	1.529	0.000	1.45		370.4	SURCHARGED
1.023	22	24	114.614	1.393	0.000	1.52		371.2	SURCHARGED

M-EC		Page 298
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	29	119.315	-0.623	0.000	0.02		11.8	OK
26.001	90	29	118.991	-0.616	0.000	0.02		13.9	OK
27.000	200	29	119.556	-0.260	0.000	0.04		6.7	OK
27.001	109	29	118.831	-0.448	0.000	0.05		7.5	OK
26.002	91	29	118.592	-0.656	0.000	0.04		21.5	OK
28.000	TWD27	29	119.382	-0.235	0.000	0.11		13.7	OK
26.003	91A	29	118.454	-0.708	0.000	0.05		37.7	OK
26.004	92	29	118.377	-0.687	0.000	0.07		43.0	OK
26.005	93	29	118.303	-0.700	0.000	0.06		42.9	OK
29.000	TWD29	29	119.403	-0.162	0.000	0.17		6.3	OK
29.001	TWD30	29	119.238	-0.220	0.000	0.16		10.4	OK
29.002	TWD31	29	119.104	-0.244	0.000	0.08		13.9	OK
26.006	94	29	118.190	-0.676	0.000	0.07		57.3	OK
26.007	95	29	118.081	-0.674	0.000	0.08		58.9	OK
30.000	201	29	119.207	-0.234	0.000	0.11		9.1	OK
30.001	202	29	118.971	-0.219	0.000	0.17		12.4	OK
30.002	203	29	118.910	-0.191	0.000	0.29		21.5	OK
30.003	204	29	118.694	-0.289	0.000	0.12		25.2	OK
30.004	117	29	118.425	-0.246	0.000	0.26		26.8	OK
26.008	95A	29	117.970	-0.641	0.000	0.11		90.6	OK
26.009	96	29	117.779	-0.654	0.000	0.10		90.6	OK
26.010	97	29	117.370	-0.668	0.000	0.08		90.7	OK
31.000	121	29	117.015	-0.605	0.000	0.16		58.3	OK
32.000	TWD4	29	120.076	-0.185	0.000	0.07		3.6	OK
32.001	TWD5	29	119.879	-0.170	0.000	0.13		8.0	OK
33.000	TWD16	29	119.503	-0.208	0.000	0.20		13.3	OK
32.002	TWD6	29	119.330	-0.258	0.000	0.21		22.9	OK
34.000	TWD17	29	119.529	-0.178	0.000	0.10		5.0	OK
35.000	TWD18	29	119.457	-0.181	0.000	0.09		3.5	OK
32.003	TWD7	29	119.179	-0.261	0.000	0.20		33.6	OK
32.004	TWD8	29	118.670	-0.313	0.000	0.20		41.5	OK
32.005	TWD9	29	118.557	-0.294	0.000	0.26		44.3	OK
32.006	TWD10	29	118.508	-0.293	0.000	0.26		44.8	OK
36.000	TWD19	29	119.563	-0.158	0.000	0.19		13.2	OK
32.007	TWD11	29	117.383	-0.338	0.000	0.40		59.7	OK
37.000	TWD20	29	119.315	-0.171	0.000	0.13		5.0	OK
37.001	TWD21	29	119.048	-0.223	0.000	0.15		10.1	OK
37.002	TWD22	29	118.859	-0.207	0.000	0.21		14.3	OK
37.003	TWD23	29	118.590	-0.270	0.000	0.18		18.7	OK
37.004	TWD24	29	118.491	-0.295	0.000	0.10		21.8	OK
37.005	TWD25	29	118.005	-0.293	0.000	0.11		24.7	OK
32.008	TWD12	29	117.268	-0.432	0.000	0.25		89.1	OK
38.000	TWD26	29	119.262	-0.188	0.000	0.07		6.5	OK
32.009	TWD13	29	117.153	-0.462	0.000	0.23		98.3	OK
32.010	TWD14	29	117.094	-0.453	0.000	0.25		102.0	OK
32.011	TWD15	29	117.046	-0.449	0.000	0.34		106.6	OK
26.011	98	29	116.775	-0.813	0.000	0.12		254.8	OK
26.012	99	29	116.244	-0.776	0.000	0.15		254.8	OK
26.013	100	29	116.090	-0.639	0.000	0.33		254.7	OK

M-EC		Page 299
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	24	114.458	1.326	0.000	2.18		564.2	SURCHARGED
1.025	24	24	113.487	0.561	0.000	2.20		563.6	SURCHARGED
1.026	25	24	112.820	0.031	0.000	0.88		563.5	SURCHARGED
39.000	79	29	121.663	-0.510	0.000	0.01		2.8	OK
39.001	80	29	121.274	-0.485	0.000	0.02		7.8	OK
39.002	81	29	120.707	-0.620	0.000	0.02		9.7	OK
40.000	130	29	121.023	-0.178	0.000	0.10		3.2	OK
41.000	BAR1	29	121.694	-0.111	0.000	0.16		4.5	OK
41.001	131	29	120.872	-0.302	0.000	0.08		8.0	OK
39.003	81A	29	120.542	-0.592	0.000	0.04		22.3	OK
42.000	133	29	120.681	-0.265	0.000	0.03		1.8	OK
39.004	82	29	120.266	-0.639	0.000	0.05		28.3	OK
39.005	83	29	120.186	-0.649	0.000	0.04		28.2	OK
43.000	BAR2	29	121.523	-0.106	0.000	0.19		5.8	OK
43.001	136	29	120.405	-0.287	0.000	0.13		9.4	OK
39.006	83A	29	120.046	-0.624	0.000	0.07		40.4	OK
44.000	206	29	120.493	-0.364	0.000	0.06		6.1	OK
44.001	207	29	120.469	-0.351	0.000	0.07		7.7	OK
44.002	208	29	120.448	-0.328	0.000	0.10		13.1	OK
44.003	209	29	120.416	-0.288	0.000	0.14		13.0	OK
45.000	210	29	120.901	-0.184	0.000	0.08		3.5	OK
45.001	211	29	120.704	-0.238	0.000	0.10		6.4	OK
45.002	212	29	120.456	-0.300	0.000	0.09		9.6	OK
44.004	213	29	120.408	-0.274	0.000	0.28		29.5	OK
44.005	214	29	120.370	-0.276	0.000	0.23		30.9	OK
44.006	215	29	120.323	-0.257	0.000	0.38		36.1	OK
44.007	138	29	120.270	-0.287	0.000	0.28		36.1	OK
39.007	84	29	119.908	-0.617	0.000	0.14		83.5	OK
46.000	BAR4	29	121.555	-0.154	0.000	0.22		8.2	OK
46.001	BAR5	29	121.351	-0.137	0.000	0.32		11.6	OK
47.000	BAR6	29	122.046	-0.105	0.000	0.20		3.3	OK
47.001	BAR7	29	121.715	-0.156	0.000	0.21		7.5	OK
47.002	BAR8	29	121.566	-0.161	0.000	0.18		10.5	OK
46.002	BAR9	29	121.210	-0.169	0.000	0.40		24.5	OK
46.003	BAR10	29	121.089	-0.212	0.000	0.19		31.0	OK
46.004	140	29	120.199	-0.296	0.000	0.26		31.0	OK
39.008	85	29	119.854	-0.614	0.000	0.15		114.4	OK
39.009	86	29	119.720	-0.614	0.000	0.15		119.2	OK
48.000	BAR3	29	120.832	-0.116	0.000	0.12		3.9	OK
48.001	143	29	119.803	-0.371	0.000	0.07		8.2	OK
49.000	216	29	120.422	-0.248	0.000	0.07		12.2	OK
49.001	144	29	119.838	-0.357	0.000	0.10		13.0	OK
39.010	87	29	119.481	-0.671	0.000	0.15		140.1	OK
39.011	88	29	119.356	-0.651	0.000	0.17		163.7	OK
39.012	103	29	119.212	-0.639	0.000	0.18		177.3	OK
50.000	BAR11	29	121.344	-0.101	0.000	0.23		4.0	OK
50.001	BAR12	29	120.979	-0.159	0.000	0.19		9.7	OK
51.000	BAR13	29	120.783	-0.185	0.000	0.05		1.6	OK
50.002	BAR14	29	120.770	-0.149	0.000	0.25		13.5	OK

M-EC		Page 300
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	29	120.849	-0.102	0.000	0.22		3.8	OK
52.001	BAR16	29	120.560	-0.166	0.000	0.15		6.8	OK
50.003	BAR17	29	120.441	-0.177	0.000	0.36		21.9	OK
50.004	BAR18	29	120.370	-0.171	0.000	0.38		24.3	OK
50.005	BAR19	29	120.228	-0.221	0.000	0.16		27.3	OK
50.006	149	29	119.395	-0.330	0.000	0.16		27.3	OK
53.000	TWD1	29	120.428	-0.186	0.000	0.07		2.7	OK
54.000	TWD3	29	120.678	-0.204	0.000	0.02		1.7	OK
53.001	TWD2	29	120.067	-0.179	0.000	0.10		8.6	OK
39.013	104	29	119.026	-0.644	0.000	0.32		213.1	OK
39.014	104A	29	118.906	-0.729	0.000	0.19		214.3	OK
55.000	BAR20	29	121.399	-0.094	0.000	0.30		5.2	OK
55.001	BAR21	29	120.892	-0.161	0.000	0.18		9.6	OK
56.000	BAR22	29	120.453	-0.152	0.000	0.23		8.4	OK
56.001	BAR23	29	120.333	-0.136	0.000	0.33		10.8	OK
55.002	BAR24	29	120.218	-0.196	0.000	0.26		21.2	OK
55.003	BAR25	29	119.942	-0.252	0.000	0.23		25.0	OK
55.004	BAR26	29	119.818	-0.298	0.000	0.10		29.9	OK
39.015	105	29	118.735	-0.739	0.000	0.18		243.2	OK
39.016	106	29	118.564	-1.583	0.000	0.03		242.8	OK
39.017	107	29	115.898	-0.649	0.000	0.13		242.5	OK
1.027	26	24	112.269	-0.639	0.000	0.21		802.3	OK
1.028	27	24	109.442	-0.305	0.000	0.39		802.0	OK
1.029	28	24	106.502	-0.689	0.000	0.17		800.3	OK
1.030	29	24	97.558	-0.919	0.000	0.13		799.2	OK
1.031	30	24	93.008	-0.374	0.000	0.39		798.1	OK
1.032	31	24	91.915	-0.335	0.000	0.51		794.1	OK
1.033	32	28	91.422	-0.701	0.000	0.25		791.1	OK
1.034	33	18	91.044	0.771	0.000	1.01		246.9	SURCHARGED*
57.000	108	33	91.083	-0.803	0.000	0.19		314.8	OK
57.001	109	34	90.920	-0.966	0.000	0.16		307.9	OK
57.002	110	31	90.866	-1.020	0.000	0.12		296.4	OK
1.035	109	17	90.867	1.001	0.000	0.34		82.6	SURCHARGED*
1.036	34	14	86.650	0.000	0.000	0.79		65.3	SURCHARGED*

M-EC		Page 301
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
1.000	1	35	116.602	-0.253	0.000	0.06	4.7	OK	
1.001	2	35	116.460	-0.249	0.000	0.07	6.1	OK	
1.002	3	35	116.166	-0.322	0.000	0.05	6.1	OK	
1.003	4	35	116.051	-0.296	0.000	0.10	17.7	OK	
2.000	5	35	118.419	-0.256	0.000	0.05	6.1	OK	
2.001	6	35	118.231	-0.230	0.000	0.12	12.9	OK	
2.002	6	35	117.979	-0.234	0.000	0.11	14.8	OK	
2.003	8	35	117.103	-0.245	0.000	0.08	18.5	OK	
3.000	9.1	35	118.260	-0.165	0.000	0.16	8.4	OK	
3.001	9	35	116.909	-0.236	0.000	0.10	8.4	OK	
3.002	10	35	116.689	-0.294	0.000	0.11	11.2	OK	
3.003	11	35	116.536	-0.346	0.000	0.12	21.5	OK	
4.000	12	35	117.099	-0.187	0.000	0.07	7.0	OK	
3.004	13	35	116.341	-0.419	0.000	0.09	28.5	OK	
3.005	14	31	116.215	-0.338	0.000	0.16	39.0	OK	
3.006	15	27	116.196	-0.269	0.000	0.18	40.0	OK	
2.004	16	27	116.191	-0.252	0.000	0.17	58.5	OK	
2.005	17	27	116.163	-0.190	0.000	0.16	66.6	OK	
5.000	18	35	116.688	-0.199	0.000	0.03	3.9	OK	
2.006	19	27	116.103	-0.076	0.000	0.18	76.0	OK	
2.007	20	27	116.020	0.013	0.000	0.25	98.9	SURCHARGED	
1.004	21	27	115.881	0.033	0.000	0.38	132.4	SURCHARGED	

M-EC		Page 302
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	27	115.802	0.015	0.000	0.22		139.2	SURCHARGED
6.000	23	35	116.758	-0.172	0.000	0.13		5.6	OK
6.001	24	35	116.526	-0.167	0.000	0.15		5.6	OK
6.002	25	35	116.395	-0.230	0.000	0.12		9.2	OK
6.003	26	35	116.107	-0.208	0.000	0.20		12.5	OK
6.004	27	35	115.975	-0.281	0.000	0.14		18.1	OK
6.005	28	28	115.714	-0.269	0.000	0.08		18.1	OK
1.006	29	27	115.711	0.081	0.000	0.20		167.7	SURCHARGED
7.000	30	35	118.081	-0.179	0.000	0.10		3.7	OK
7.001	31	35	117.909	-0.186	0.000	0.07		8.4	OK
1.007	8	27	115.533	0.192	0.000	0.24		178.5	SURCHARGED
8.000	60	35	116.668	-0.188	0.000	0.07		2.5	OK
8.001	61	35	116.417	-0.267	0.000	0.03		2.9	OK
8.002	35	35	116.152	-0.276	0.000	0.02		4.2	OK
1.008	10	27	115.373	0.294	0.000	0.55		182.0	SURCHARGED
9.000	62	35	119.066	-0.234	0.000	0.11		9.2	OK
10.000	40	35	118.807	-0.161	0.000	0.44		27.0	OK
9.001	63	35	118.727	-0.252	0.000	0.24		39.8	OK
9.002	64	35	118.225	-0.293	0.000	0.11		50.5	OK
9.003	148	27	115.524	0.258	0.000	0.20		51.4	SURCHARGED
1.009	11	27	115.368	0.308	0.000	0.29		210.3	SURCHARGED
1.010	12	27	115.357	0.381	0.000	0.57		211.8	SURCHARGED
1.011	13	27	115.349	0.395	0.000	0.47		206.5	SURCHARGED
1.012	14	27	115.338	0.417	0.000	0.22		206.6	SURCHARGED
1.013	15	27	115.331	0.461	0.000	0.43		198.7	SURCHARGED
1.014	16	27	115.324	0.477	0.000	0.21		197.4	SURCHARGED
11.000	TWC16	35	117.667	-0.174	0.000	0.12		11.4	OK
11.001	TWC17	35	115.480	-0.180	0.000	0.09		11.4	OK
1.015	17	27	115.316	0.446	0.000	0.14		198.8	SURCHARGED
1.016	18	27	115.308	0.541	0.000	0.16		212.5	SURCHARGED
12.000	TWC1	35	117.624	-0.177	0.000	0.10		3.8	OK
12.001	TWC2	35	117.467	-0.169	0.000	0.14		5.5	OK
12.002	TWC3	35	117.231	-0.139	0.000	0.32		10.9	OK
12.003	TWC4	35	117.161	-0.136	0.000	0.33		10.9	OK
13.000	TWC5	35	118.127	-0.163	0.000	0.17		6.5	OK
13.001	TWC6	35	117.929	-0.139	0.000	0.31		11.7	OK
13.002	TWC7	35	117.742	-0.156	0.000	0.21		14.8	OK
12.004	TWC8	35	117.012	-0.230	0.000	0.30		28.6	OK
12.005	TWC9	35	116.947	-0.221	0.000	0.35		31.3	OK
12.006	TWC10	35	116.858	-0.262	0.000	0.20		32.4	OK
1.017	TWC11	27	115.300	0.633	0.000	0.16		227.9	SURCHARGED
1.018	19	27	115.291	0.698	0.000	0.11		229.7	SURCHARGED
14.000	TWC12	35	117.220	-0.189	0.000	0.06		2.3	OK
14.001	TWC13	35	117.054	-0.198	0.000	0.03		4.3	OK
14.002	TWC14	35	116.103	-0.176	0.000	0.11		8.6	OK
1.019	TWC15	27	115.283	0.955	0.000	0.19		238.5	SURCHARGED
15.000	65	35	117.142	-0.227	0.000	0.13		9.2	OK
16.000	136	35	118.021	-0.193	0.000	0.05		2.9	OK
16.001	137	35	117.716	-0.191	0.000	0.06		3.1	OK

M-EC		Page 303
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	35	117.459	-0.260	0.000	0.04		5.7	OK
15.001	66	35	116.914	-0.272	0.000	0.17		19.9	OK
15.002	67	35	116.782	-0.262	0.000	0.20		22.4	OK
17.000	9	35	117.298	-0.286	0.000	0.01		0.8	OK
17.001	75	35	117.148	-0.249	0.000	0.07		5.3	OK
17.002	76	35	116.751	-0.469	0.000	0.03		10.1	OK
15.003	68	35	116.556	-0.389	0.000	0.15		36.6	OK
15.004	69	35	116.376	-0.441	0.000	0.14		44.2	OK
15.005	70	35	116.307	-0.421	0.000	0.16		44.2	OK
15.006	71	35	116.272	-0.402	0.000	0.17		51.4	OK
18.000	147	35	116.778	-0.193	0.000	0.05		1.9	OK
18.001	112	35	116.604	-0.243	0.000	0.08		4.3	OK
18.002	113	35	116.427	-0.376	0.000	0.05		5.6	OK
19.000	115	35	117.293	-0.201	0.000	0.03		1.2	OK
19.001	116	35	117.035	-0.195	0.000	0.04		3.5	OK
18.003	77	35	116.386	-0.364	0.000	0.08		10.2	OK
20.000	134	35	117.238	-0.194	0.000	0.05		4.0	OK
18.004	135	35	116.314	-0.386	0.000	0.10		17.6	OK
18.005	78	35	116.267	-0.378	0.000	0.11		20.0	OK
15.007	72	35	116.236	-0.362	0.000	0.26		74.4	OK
15.008	73	35	116.149	-0.305	0.000	0.37		78.3	OK
15.009	74	35	116.105	-0.306	0.000	0.48		78.4	OK
15.010	98	35	116.013	-0.372	0.000	0.29		78.4	OK
15.011	99	35	115.897	-0.386	0.000	0.28		78.3	OK
15.012	101	35	115.716	-0.383	0.000	0.28		78.2	OK
21.000	142	35	117.112	-0.177	0.000	0.10		4.7	OK
21.001	143	35	116.693	-0.174	0.000	0.12		7.0	OK
22.000	118	35	117.092	-0.214	0.000	0.01		0.3	OK
22.001	119	35	117.033	-0.187	0.000	0.07		2.1	OK
22.002	120	35	116.984	-0.177	0.000	0.10		6.5	OK
23.000	129	35	116.618	-0.259	0.000	0.05		3.7	OK
23.001	130	35	116.482	-0.260	0.000	0.04		4.5	OK
22.003	121	35	116.289	-0.205	0.000	0.22		14.4	OK
24.000	131	35	116.912	-0.167	0.000	0.15		6.3	OK
24.001	132	35	116.642	-0.140	0.000	0.31		8.3	OK
24.002	133	35	116.495	-0.245	0.000	0.08		9.7	OK
22.004	122	35	116.089	-0.335	0.000	0.14		25.9	OK
22.005	123	35	116.024	-0.305	0.000	0.19		29.6	OK
25.000	139	35	116.721	-0.165	0.000	0.16		4.4	OK
25.001	140	35	116.609	-0.165	0.000	0.16		9.8	OK
22.006	124	35	115.972	-0.290	0.000	0.27		41.3	OK
22.007	125	35	115.761	-0.445	0.000	0.15		41.3	OK
22.008	126	35	115.576	-0.584	0.000	0.08		44.1	OK
22.009	127	35	115.526	-0.537	0.000	0.18		44.0	OK
21.002	149	35	115.389	-0.626	0.000	0.06		51.0	OK
1.020	20	27	115.274	1.720	0.000	4.80		318.0	SURCHARGED
1.021	108	27	114.622	1.077	0.000	1.27		317.9	SURCHARGED
1.022	21	27	114.413	1.004	0.000	1.24		315.8	SURCHARGED
1.023	22	27	114.142	0.921	0.000	1.29		316.1	SURCHARGED

M-EC		Page 304
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	35	119.301	-0.637	0.000	0.01		8.6	OK
26.001	90	35	118.975	-0.632	0.000	0.01		10.2	OK
27.000	200	35	119.551	-0.265	0.000	0.03		4.9	OK
27.001	109	35	118.820	-0.459	0.000	0.04		5.5	OK
26.002	91	35	118.581	-0.667	0.000	0.03		15.7	OK
28.000	TWD27	35	119.372	-0.245	0.000	0.08		10.0	OK
26.003	91A	35	118.438	-0.724	0.000	0.04		27.6	OK
26.004	92	35	118.355	-0.709	0.000	0.05		31.4	OK
26.005	93	35	118.285	-0.718	0.000	0.04		31.4	OK
29.000	TWD29	35	119.393	-0.172	0.000	0.13		4.6	OK
29.001	TWD30	35	119.226	-0.232	0.000	0.12		7.6	OK
29.002	TWD31	35	119.094	-0.254	0.000	0.06		10.1	OK
26.006	94	35	118.165	-0.701	0.000	0.05		41.9	OK
26.007	95	35	118.055	-0.700	0.000	0.06		43.1	OK
30.000	201	35	119.197	-0.244	0.000	0.08		6.7	OK
30.001	202	35	118.959	-0.231	0.000	0.12		9.0	OK
30.002	203	35	118.893	-0.208	0.000	0.21		15.7	OK
30.003	204	35	118.683	-0.300	0.000	0.09		18.4	OK
30.004	117	35	118.405	-0.266	0.000	0.19		19.6	OK
26.008	95A	35	117.944	-0.667	0.000	0.08		66.3	OK
26.009	96	35	117.751	-0.682	0.000	0.07		66.3	OK
26.010	97	35	117.343	-0.695	0.000	0.06		66.2	OK
31.000	121	35	116.982	-0.638	0.000	0.12		42.5	OK
32.000	TWD4	35	120.070	-0.191	0.000	0.05		2.7	OK
32.001	TWD5	35	119.871	-0.178	0.000	0.10		5.8	OK
33.000	TWD16	35	119.488	-0.223	0.000	0.15		9.7	OK
32.002	TWD6	35	119.311	-0.277	0.000	0.16		16.7	OK
34.000	TWD17	35	119.521	-0.186	0.000	0.07		3.6	OK
35.000	TWD18	35	119.449	-0.189	0.000	0.06		2.6	OK
32.003	TWD7	35	119.161	-0.279	0.000	0.15		24.6	OK
32.004	TWD8	35	118.648	-0.335	0.000	0.15		30.3	OK
32.005	TWD9	35	118.534	-0.317	0.000	0.19		32.4	OK
32.006	TWD10	35	118.485	-0.316	0.000	0.19		32.7	OK
36.000	TWD19	35	119.552	-0.169	0.000	0.14		9.7	OK
32.007	TWD11	35	117.340	-0.381	0.000	0.29		43.6	OK
37.000	TWD20	35	119.308	-0.178	0.000	0.10		3.7	OK
37.001	TWD21	35	119.037	-0.234	0.000	0.11		7.4	OK
37.002	TWD22	35	118.844	-0.222	0.000	0.15		10.4	OK
37.003	TWD23	35	118.574	-0.286	0.000	0.13		13.6	OK
37.004	TWD24	35	118.479	-0.307	0.000	0.08		15.9	OK
37.005	TWD25	35	117.993	-0.305	0.000	0.08		18.0	OK
32.008	TWD12	35	117.229	-0.471	0.000	0.19		65.3	OK
38.000	TWD26	35	119.256	-0.194	0.000	0.05		4.8	OK
32.009	TWD13	35	117.106	-0.509	0.000	0.17		72.0	OK
32.010	TWD14	35	117.046	-0.501	0.000	0.18		74.6	OK
32.011	TWD15	35	116.998	-0.497	0.000	0.25		77.9	OK
26.011	98	35	116.743	-0.845	0.000	0.09		186.5	OK
26.012	99	35	116.204	-0.816	0.000	0.11		186.3	OK
26.013	100	35	116.026	-0.703	0.000	0.24		186.4	OK



M-EC		Page 305
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	27	114.002	0.870	0.000	1.87	484.8	484.8	SURCHARGED
1.025	24	27	113.268	0.342	0.000	1.90	484.8	484.8	SURCHARGED
1.026	25	27	112.662	-0.127	0.000	0.76	484.0	484.0	OK
39.000	79	35	121.659	-0.514	0.000	0.00	2.1	2.1	OK
39.001	80	35	121.263	-0.496	0.000	0.01	5.7	5.7	OK
39.002	81	35	120.692	-0.635	0.000	0.01	7.0	7.0	OK
40.000	130	35	121.015	-0.186	0.000	0.07	2.4	2.4	OK
41.000	BAR1	35	121.688	-0.117	0.000	0.11	3.3	3.3	OK
41.001	131	35	120.859	-0.315	0.000	0.06	5.8	5.8	OK
39.003	81A	35	120.532	-0.602	0.000	0.03	16.3	16.3	OK
42.000	133	35	120.677	-0.269	0.000	0.02	1.3	1.3	OK
39.004	82	35	120.250	-0.655	0.000	0.04	20.6	20.6	OK
39.005	83	35	120.173	-0.662	0.000	0.03	20.6	20.6	OK
43.000	BAR2	35	121.516	-0.113	0.000	0.14	4.2	4.2	OK
43.001	136	35	120.393	-0.299	0.000	0.09	6.9	6.9	OK
39.006	83A	35	120.026	-0.644	0.000	0.05	29.5	29.5	OK
44.000	206	35	120.477	-0.380	0.000	0.04	4.4	4.4	OK
44.001	207	35	120.450	-0.369	0.000	0.05	5.6	5.6	OK
44.002	208	35	120.426	-0.351	0.000	0.07	9.6	9.6	OK
44.003	209	35	120.388	-0.316	0.000	0.10	9.5	9.5	OK
45.000	210	35	120.894	-0.191	0.000	0.06	2.6	2.6	OK
45.001	211	35	120.694	-0.248	0.000	0.07	4.7	4.7	OK
45.002	212	35	120.443	-0.313	0.000	0.07	7.0	7.0	OK
44.004	213	35	120.379	-0.303	0.000	0.21	21.6	21.6	OK
44.005	214	35	120.341	-0.305	0.000	0.17	22.7	22.7	OK
44.006	215	35	120.292	-0.288	0.000	0.28	26.5	26.5	OK
44.007	138	35	120.245	-0.312	0.000	0.21	26.5	26.5	OK
39.007	84	35	119.878	-0.647	0.000	0.10	61.3	61.3	OK
46.000	BAR4	35	121.544	-0.165	0.000	0.16	6.0	6.0	OK
46.001	BAR5	35	121.337	-0.151	0.000	0.24	8.4	8.4	OK
47.000	BAR6	35	122.038	-0.113	0.000	0.14	2.4	2.4	OK
47.001	BAR7	35	121.704	-0.167	0.000	0.15	5.5	5.5	OK
47.002	BAR8	35	121.556	-0.171	0.000	0.13	7.7	7.7	OK
46.002	BAR9	35	121.189	-0.190	0.000	0.29	17.9	17.9	OK
46.003	BAR10	35	121.075	-0.226	0.000	0.14	22.6	22.6	OK
46.004	140	35	120.176	-0.319	0.000	0.19	22.6	22.6	OK
39.008	85	35	119.824	-0.644	0.000	0.11	83.8	83.8	OK
39.009	86	35	119.690	-0.644	0.000	0.11	87.3	87.3	OK
48.000	BAR3	35	120.827	-0.121	0.000	0.09	2.8	2.8	OK
48.001	143	35	119.790	-0.384	0.000	0.05	6.0	6.0	OK
49.000	216	35	120.414	-0.256	0.000	0.05	8.9	8.9	OK
49.001	144	35	119.823	-0.372	0.000	0.07	9.5	9.5	OK
39.010	87	35	119.448	-0.704	0.000	0.11	102.7	102.7	OK
39.011	88	35	119.318	-0.689	0.000	0.13	120.1	120.1	OK
39.012	103	35	119.170	-0.681	0.000	0.14	129.9	129.9	OK
50.000	BAR11	35	121.336	-0.109	0.000	0.17	2.9	2.9	OK
50.001	BAR12	35	120.968	-0.170	0.000	0.14	7.1	7.1	OK
51.000	BAR13	35	120.775	-0.193	0.000	0.04	1.2	1.2	OK
50.002	BAR14	35	120.759	-0.160	0.000	0.18	9.9	9.9	OK

M-EC		Page 306
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	35	120.841	-0.110	0.000	0.16		2.8	OK
52.001	BAR16	35	120.551	-0.175	0.000	0.11		4.9	OK
50.003	BAR17	35	120.421	-0.197	0.000	0.26		15.9	OK
50.004	BAR18	35	120.349	-0.192	0.000	0.28		17.7	OK
50.005	BAR19	35	120.216	-0.233	0.000	0.11		20.0	OK
50.006	149	35	119.377	-0.348	0.000	0.12		20.0	OK
53.000	TWD1	35	120.422	-0.192	0.000	0.05		2.0	OK
54.000	TWD3	35	120.673	-0.209	0.000	0.01		1.3	OK
53.001	TWD2	35	120.060	-0.186	0.000	0.07		6.2	OK
39.013	104	35	118.962	-0.708	0.000	0.23		156.0	OK
39.014	104A	35	118.855	-0.780	0.000	0.14		156.7	OK
55.000	BAR20	35	121.390	-0.103	0.000	0.22		3.8	OK
55.001	BAR21	35	120.882	-0.171	0.000	0.13		7.0	OK
56.000	BAR22	35	120.441	-0.164	0.000	0.17		6.1	OK
56.001	BAR23	35	120.318	-0.151	0.000	0.24		7.9	OK
55.002	BAR24	35	120.202	-0.212	0.000	0.19		15.5	OK
55.003	BAR25	35	119.923	-0.271	0.000	0.17		18.3	OK
55.004	BAR26	35	119.805	-0.311	0.000	0.07		21.8	OK
39.015	105	35	118.682	-0.792	0.000	0.13		178.5	OK
39.016	106	35	118.502	-1.645	0.000	0.02		178.4	OK
39.017	107	35	115.846	-0.701	0.000	0.10		178.1	OK
1.027	26	32	112.213	-0.695	0.000	0.17		655.6	OK
1.028	27	32	109.393	-0.354	0.000	0.31		653.7	OK
1.029	28	31	106.453	-0.738	0.000	0.14		655.6	OK
1.030	29	29	97.502	-0.975	0.000	0.11		654.6	OK
1.031	30	29	92.946	-0.436	0.000	0.32		652.2	OK
1.032	31	29	91.835	-0.415	0.000	0.41		648.2	OK
1.033	32	30	91.348	-0.775	0.000	0.21		648.6	OK
1.034	33	17	91.061	0.788	0.000	0.91		222.4	SURCHARGED*
57.000	108	41	90.977	-0.909	0.000	0.14		231.1	OK
57.001	109	31	90.951	-0.935	0.000	0.12		228.6	OK
57.002	110	24	90.951	-0.935	0.000	0.09		223.0	OK
1.035	109	16	90.951	1.085	0.000	0.25		59.3	SURCHARGED*
1.036	34	24	86.650	0.000	0.000	0.71		59.4	SURCHARGED*

M-EC		Page 307
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	38	116.596	-0.259	0.000	0.05	3.7	OK
1.001	2	38	116.454	-0.255	0.000	0.06	4.8	OK
1.002	3	38	116.160	-0.328	0.000	0.04	4.8	OK
1.003	4	38	116.042	-0.305	0.000	0.08	14.1	OK
2.000	5	38	118.414	-0.261	0.000	0.04	4.8	OK
2.001	6	38	118.224	-0.237	0.000	0.10	10.3	OK
2.002	6	38	117.972	-0.241	0.000	0.09	11.8	OK
2.003	8	38	117.096	-0.252	0.000	0.06	14.8	OK
3.000	9.1	38	118.253	-0.172	0.000	0.13	6.7	OK
3.001	9	38	116.903	-0.242	0.000	0.08	6.7	OK
3.002	10	38	116.681	-0.302	0.000	0.08	9.0	OK
3.003	11	38	116.526	-0.356	0.000	0.10	17.2	OK
4.000	12	38	117.095	-0.191	0.000	0.05	5.6	OK
3.004	13	38	116.327	-0.433	0.000	0.07	22.8	OK
3.005	14	38	116.151	-0.402	0.000	0.13	31.1	OK
3.006	15	38	116.015	-0.450	0.000	0.14	31.9	OK
2.004	16	38	115.989	-0.454	0.000	0.13	46.7	OK
2.005	17	38	115.894	-0.459	0.000	0.13	53.2	OK
5.000	18	38	116.686	-0.201	0.000	0.03	3.1	OK
2.006	19	38	115.728	-0.451	0.000	0.14	58.7	OK
2.007	20	38	115.564	-0.443	0.000	0.15	61.8	OK
1.004	21	37	115.437	-0.411	0.000	0.22	75.9	OK

M-EC		Page 308
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	37	115.265	-0.522	0.000	0.14		86.4	OK
6.000	23	38	116.752	-0.178	0.000	0.10		4.5	OK
6.001	24	38	116.520	-0.173	0.000	0.12		4.5	OK
6.002	25	38	116.388	-0.237	0.000	0.10		7.3	OK
6.003	26	38	116.096	-0.219	0.000	0.16		10.0	OK
6.004	27	38	115.965	-0.291	0.000	0.12		14.5	OK
6.005	28	38	115.668	-0.315	0.000	0.06		14.5	OK
1.006	29	29	115.232	-0.398	0.000	0.13		108.3	OK
7.000	30	38	118.076	-0.184	0.000	0.08		3.0	OK
7.001	31	38	117.904	-0.191	0.000	0.06		6.7	OK
1.007	8	29	115.179	-0.162	0.000	0.16		116.3	OK
8.000	60	38	116.664	-0.192	0.000	0.05		2.0	OK
8.001	61	38	116.414	-0.270	0.000	0.02		2.3	OK
8.002	35	38	116.147	-0.281	0.000	0.01		3.4	OK
1.008	10	32	115.079	0.000	0.000	0.35		116.9	OK
9.000	62	38	119.060	-0.240	0.000	0.09		7.3	OK
10.000	40	38	118.791	-0.177	0.000	0.35		21.6	OK
9.001	63	38	118.714	-0.265	0.000	0.19		31.8	OK
9.002	64	38	118.218	-0.300	0.000	0.09		40.3	OK
9.003	148	30	115.070	-0.196	0.000	0.16		41.4	OK
1.009	11	32	115.060	0.000	0.000	0.22		160.0	OK
1.010	12	32	114.976	0.000	0.000	0.43		160.7	OK
1.011	13	32	114.954	0.000	0.000	0.37		160.9	OK
1.012	14	32	114.921	0.000	0.000	0.17		157.7	OK
1.013	15	32	114.870	0.000	0.000	0.35		161.5	OK
1.014	16	32	114.847	0.000	0.000	0.19		171.9	OK
11.000	TWC16	38	117.662	-0.179	0.000	0.09		9.1	OK
11.001	TWC17	38	115.475	-0.185	0.000	0.07		9.1	OK
1.015	17	32	114.800	-0.070	0.000	0.12		179.0	OK
1.016	18	32	114.715	-0.052	0.000	0.13		174.2	OK
12.000	TWC1	38	117.619	-0.182	0.000	0.08		3.0	OK
12.001	TWC2	38	117.461	-0.175	0.000	0.11		4.4	OK
12.002	TWC3	38	117.221	-0.149	0.000	0.25		8.7	OK
12.003	TWC4	38	117.150	-0.147	0.000	0.26		8.7	OK
13.000	TWC5	38	118.120	-0.170	0.000	0.14		5.2	OK
13.001	TWC6	38	117.919	-0.149	0.000	0.25		9.4	OK
13.002	TWC7	38	117.734	-0.164	0.000	0.17		11.8	OK
12.004	TWC8	38	116.995	-0.247	0.000	0.24		22.8	OK
12.005	TWC9	38	116.928	-0.240	0.000	0.28		25.0	OK
12.006	TWC10	38	116.845	-0.275	0.000	0.16		25.9	OK
1.017	TWC11	32	114.625	-0.042	0.000	0.13		188.4	OK
1.018	19	32	114.519	-0.074	0.000	0.09		188.9	OK
14.000	TWC12	38	117.216	-0.193	0.000	0.05		1.8	OK
14.001	TWC13	38	117.051	-0.201	0.000	0.03		3.4	OK
14.002	TWC14	38	116.098	-0.181	0.000	0.09		6.9	OK
1.019	TWC15	34	114.407	0.079	0.000	0.16		199.2	SURCHARGED
15.000	65	38	117.134	-0.235	0.000	0.11		7.4	OK
16.000	136	38	118.018	-0.196	0.000	0.04		2.3	OK
16.001	137	38	117.712	-0.195	0.000	0.04		2.5	OK

M-EC		Page 309
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	38	117.455	-0.264	0.000	0.04		4.5	OK
15.001	66	38	116.902	-0.284	0.000	0.13		15.9	OK
15.002	67	38	116.768	-0.276	0.000	0.16		17.9	OK
17.000	9	38	117.295	-0.289	0.000	0.01		0.6	OK
17.001	75	38	117.142	-0.255	0.000	0.05		4.2	OK
17.002	76	38	116.745	-0.475	0.000	0.02		8.0	OK
15.003	68	38	116.541	-0.404	0.000	0.12		29.2	OK
15.004	69	37	116.356	-0.461	0.000	0.11		35.4	OK
15.005	70	37	116.283	-0.445	0.000	0.13		35.3	OK
15.006	71	37	116.245	-0.429	0.000	0.13		41.1	OK
18.000	147	38	116.774	-0.197	0.000	0.04		1.5	OK
18.001	112	38	116.597	-0.250	0.000	0.07		3.4	OK
18.002	113	38	116.418	-0.385	0.000	0.04		4.5	OK
19.000	115	38	117.290	-0.204	0.000	0.02		1.0	OK
19.001	116	38	117.032	-0.198	0.000	0.04		2.8	OK
18.003	77	38	116.374	-0.376	0.000	0.06		8.1	OK
20.000	134	38	117.235	-0.197	0.000	0.04		3.2	OK
18.004	135	37	116.295	-0.405	0.000	0.08		14.0	OK
18.005	78	37	116.243	-0.402	0.000	0.09		16.0	OK
15.007	72	37	116.205	-0.393	0.000	0.21		59.7	OK
15.008	73	37	116.113	-0.341	0.000	0.29		62.7	OK
15.009	74	37	116.069	-0.342	0.000	0.39		62.6	OK
15.010	98	37	115.988	-0.397	0.000	0.23		62.7	OK
15.011	99	37	115.873	-0.410	0.000	0.22		62.8	OK
15.012	101	37	115.692	-0.407	0.000	0.23		62.8	OK
21.000	142	38	117.106	-0.183	0.000	0.08		3.7	OK
21.001	143	38	116.688	-0.179	0.000	0.09		5.6	OK
22.000	118	38	117.089	-0.217	0.000	0.01		0.3	OK
22.001	119	38	117.029	-0.191	0.000	0.05		1.7	OK
22.002	120	38	116.979	-0.182	0.000	0.08		5.2	OK
23.000	129	38	116.614	-0.263	0.000	0.04		2.9	OK
23.001	130	38	116.478	-0.264	0.000	0.04		3.6	OK
22.003	121	38	116.278	-0.215	0.000	0.18		11.5	OK
24.000	131	38	116.905	-0.173	0.000	0.12		5.0	OK
24.001	132	38	116.632	-0.150	0.000	0.24		6.6	OK
24.002	133	38	116.488	-0.252	0.000	0.06		7.8	OK
22.004	122	38	116.076	-0.349	0.000	0.11		20.7	OK
22.005	123	38	116.007	-0.322	0.000	0.16		23.6	OK
25.000	139	38	116.714	-0.172	0.000	0.13		3.5	OK
25.001	140	38	116.602	-0.172	0.000	0.13		7.8	OK
22.006	124	38	115.954	-0.308	0.000	0.22		33.0	OK
22.007	125	38	115.744	-0.462	0.000	0.12		33.0	OK
22.008	126	37	115.556	-0.604	0.000	0.06		35.2	OK
22.009	127	37	115.501	-0.562	0.000	0.14		35.2	OK
21.002	149	37	115.374	-0.641	0.000	0.05		40.8	OK
1.020	20	35	114.399	0.845	0.000	4.05		268.3	SURCHARGED
1.021	108	35	113.972	0.427	0.000	1.08		269.8	SURCHARGED
1.022	21	35	113.836	0.427	0.000	1.03		262.9	SURCHARGED
1.023	22	36	113.654	0.433	0.000	1.07		262.1	SURCHARGED

M-EC		Page 310
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	38	119.293	-0.645	0.000	0.01		6.9	OK
26.001	90	38	118.966	-0.641	0.000	0.01		8.1	OK
27.000	200	38	119.548	-0.268	0.000	0.03		3.9	OK
27.001	109	38	118.814	-0.465	0.000	0.03		4.4	OK
26.002	91	38	118.574	-0.674	0.000	0.02		12.5	OK
28.000	TWD27	38	119.365	-0.252	0.000	0.06		8.0	OK
26.003	91A	38	118.429	-0.733	0.000	0.03		22.0	OK
26.004	92	38	118.343	-0.721	0.000	0.04		25.1	OK
26.005	93	38	118.275	-0.728	0.000	0.03		25.1	OK
29.000	TWD29	38	119.388	-0.177	0.000	0.10		3.7	OK
29.001	TWD30	38	119.219	-0.239	0.000	0.09		6.0	OK
29.002	TWD31	38	119.089	-0.259	0.000	0.05		8.1	OK
26.006	94	38	118.151	-0.715	0.000	0.04		33.5	OK
26.007	95	38	118.041	-0.714	0.000	0.04		34.5	OK
30.000	201	38	119.190	-0.251	0.000	0.06		5.3	OK
30.001	202	38	118.952	-0.238	0.000	0.10		7.2	OK
30.002	203	38	118.883	-0.218	0.000	0.17		12.5	OK
30.003	204	38	118.673	-0.310	0.000	0.07		14.7	OK
30.004	117	38	118.392	-0.279	0.000	0.15		15.6	OK
26.008	95A	38	117.924	-0.687	0.000	0.07		53.0	OK
26.009	96	37	117.734	-0.699	0.000	0.06		53.0	OK
26.010	97	37	117.328	-0.710	0.000	0.05		53.0	OK
31.000	121	38	116.964	-0.656	0.000	0.09		34.0	OK
32.000	TWD4	38	120.066	-0.195	0.000	0.04		2.1	OK
32.001	TWD5	38	119.866	-0.183	0.000	0.08		4.7	OK
33.000	TWD16	38	119.479	-0.232	0.000	0.12		7.7	OK
32.002	TWD6	38	119.301	-0.287	0.000	0.12		13.4	OK
34.000	TWD17	38	119.516	-0.191	0.000	0.06		2.9	OK
35.000	TWD18	38	119.445	-0.193	0.000	0.05		2.0	OK
32.003	TWD7	38	119.150	-0.290	0.000	0.12		19.6	OK
32.004	TWD8	38	118.635	-0.348	0.000	0.12		24.2	OK
32.005	TWD9	38	118.518	-0.333	0.000	0.15		25.9	OK
32.006	TWD10	38	118.468	-0.333	0.000	0.15		26.2	OK
36.000	TWD19	38	119.546	-0.175	0.000	0.11		7.7	OK
32.007	TWD11	38	117.316	-0.405	0.000	0.23		34.9	OK
37.000	TWD20	38	119.302	-0.184	0.000	0.08		2.9	OK
37.001	TWD21	38	119.030	-0.241	0.000	0.09		5.9	OK
37.002	TWD22	38	118.836	-0.230	0.000	0.12		8.3	OK
37.003	TWD23	38	118.565	-0.295	0.000	0.10		10.9	OK
37.004	TWD24	38	118.470	-0.316	0.000	0.06		12.7	OK
37.005	TWD25	38	117.984	-0.314	0.000	0.06		14.4	OK
32.008	TWD12	37	117.204	-0.496	0.000	0.15		52.2	OK
38.000	TWD26	38	119.253	-0.197	0.000	0.04		3.8	OK
32.009	TWD13	37	117.079	-0.536	0.000	0.13		57.6	OK
32.010	TWD14	37	117.019	-0.528	0.000	0.15		59.8	OK
32.011	TWD15	37	116.971	-0.524	0.000	0.20		62.4	OK
26.011	98	37	116.717	-0.871	0.000	0.07		149.4	OK
26.012	99	37	116.182	-0.838	0.000	0.09		149.3	OK
26.013	100	37	115.989	-0.740	0.000	0.19		148.9	OK

M-EC		Page 311
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	36	113.562	0.430	0.000	1.52	392.8	SURCHARGED
1.025	24	36	113.094	0.168	0.000	1.53	390.8	SURCHARGED
1.026	25	34	112.629	-0.160	0.000	0.61	391.3	OK
39.000	79	38	121.657	-0.516	0.000	0.00	1.6	OK
39.001	80	38	121.257	-0.502	0.000	0.01	4.5	OK
39.002	81	38	120.684	-0.643	0.000	0.01	5.6	OK
40.000	130	37	121.010	-0.191	0.000	0.06	1.9	OK
41.000	BAR1	38	121.685	-0.120	0.000	0.09	2.6	OK
41.001	131	38	120.852	-0.322	0.000	0.05	4.7	OK
39.003	81A	38	120.527	-0.607	0.000	0.02	13.0	OK
42.000	133	37	120.672	-0.274	0.000	0.02	1.0	OK
39.004	82	38	120.241	-0.664	0.000	0.03	16.5	OK
39.005	83	38	120.165	-0.670	0.000	0.03	16.5	OK
43.000	BAR2	38	121.512	-0.117	0.000	0.11	3.4	OK
43.001	136	38	120.384	-0.308	0.000	0.07	5.5	OK
39.006	83A	38	120.015	-0.655	0.000	0.04	23.6	OK
44.000	206	38	120.468	-0.389	0.000	0.03	3.5	OK
44.001	207	37	120.439	-0.380	0.000	0.04	4.5	OK
44.002	208	37	120.413	-0.363	0.000	0.06	7.6	OK
44.003	209	37	120.372	-0.332	0.000	0.08	7.6	OK
45.000	210	38	120.891	-0.194	0.000	0.05	2.0	OK
45.001	211	38	120.688	-0.254	0.000	0.06	3.7	OK
45.002	212	38	120.436	-0.320	0.000	0.05	5.6	OK
44.004	213	37	120.363	-0.319	0.000	0.17	17.3	OK
44.005	214	37	120.324	-0.322	0.000	0.14	18.1	OK
44.006	215	37	120.274	-0.306	0.000	0.22	21.2	OK
44.007	138	37	120.229	-0.328	0.000	0.17	21.2	OK
39.007	84	37	119.860	-0.665	0.000	0.08	49.0	OK
46.000	BAR4	38	121.537	-0.172	0.000	0.13	4.8	OK
46.001	BAR5	38	121.329	-0.159	0.000	0.19	6.7	OK
47.000	BAR6	38	122.035	-0.116	0.000	0.11	1.9	OK
47.001	BAR7	38	121.698	-0.173	0.000	0.12	4.4	OK
47.002	BAR8	38	121.550	-0.177	0.000	0.10	6.1	OK
46.002	BAR9	38	121.176	-0.203	0.000	0.23	14.3	OK
46.003	BAR10	38	121.067	-0.234	0.000	0.11	18.1	OK
46.004	140	38	120.161	-0.334	0.000	0.15	18.1	OK
39.008	85	37	119.806	-0.662	0.000	0.09	67.0	OK
39.009	86	37	119.672	-0.662	0.000	0.09	69.8	OK
48.000	BAR3	38	120.824	-0.124	0.000	0.07	2.3	OK
48.001	143	38	119.783	-0.391	0.000	0.04	4.8	OK
49.000	216	38	120.409	-0.261	0.000	0.04	7.1	OK
49.001	144	38	119.814	-0.381	0.000	0.06	7.6	OK
39.010	87	37	119.429	-0.723	0.000	0.09	82.1	OK
39.011	88	37	119.297	-0.710	0.000	0.10	96.0	OK
39.012	103	37	119.148	-0.703	0.000	0.11	104.0	OK
50.000	BAR11	38	121.332	-0.113	0.000	0.14	2.3	OK
50.001	BAR12	38	120.963	-0.175	0.000	0.11	5.7	OK
51.000	BAR13	38	120.770	-0.198	0.000	0.03	0.9	OK
50.002	BAR14	38	120.751	-0.168	0.000	0.15	7.9	OK

M-EC		Page 312
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 480 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	38	120.837	-0.114	0.000	0.13		2.2	OK
52.001	BAR16	38	120.546	-0.180	0.000	0.09		3.9	OK
50.003	BAR17	38	120.410	-0.208	0.000	0.21		12.7	OK
50.004	BAR18	38	120.337	-0.204	0.000	0.22		14.2	OK
50.005	BAR19	38	120.210	-0.239	0.000	0.09		15.9	OK
50.006	149	38	119.367	-0.358	0.000	0.09		15.9	OK
53.000	TWD1	38	120.418	-0.196	0.000	0.04		1.6	OK
54.000	TWD3	38	120.670	-0.212	0.000	0.01		1.0	OK
53.001	TWD2	38	120.055	-0.191	0.000	0.06		5.0	OK
39.013	104	37	118.925	-0.745	0.000	0.19		124.8	OK
39.014	104A	37	118.826	-0.809	0.000	0.11		125.3	OK
55.000	BAR20	38	121.385	-0.108	0.000	0.17		3.0	OK
55.001	BAR21	38	120.876	-0.177	0.000	0.10		5.6	OK
56.000	BAR22	38	120.434	-0.171	0.000	0.13		4.9	OK
56.001	BAR23	38	120.311	-0.158	0.000	0.19		6.3	OK
55.002	BAR24	38	120.191	-0.223	0.000	0.15		12.4	OK
55.003	BAR25	38	119.911	-0.283	0.000	0.14		14.6	OK
55.004	BAR26	38	119.798	-0.318	0.000	0.06		17.4	OK
39.015	105	37	118.654	-0.820	0.000	0.10		142.5	OK
39.016	106	37	118.466	-1.681	0.000	0.02		142.8	OK
39.017	107	37	115.809	-0.738	0.000	0.08		142.9	OK
1.027	26	38	112.162	-0.746	0.000	0.14		529.7	OK
1.028	27	38	109.348	-0.399	0.000	0.26		530.9	OK
1.029	28	38	106.405	-0.786	0.000	0.12		532.1	OK
1.030	29	38	97.452	-1.025	0.000	0.09		532.0	OK
1.031	30	38	92.889	-0.493	0.000	0.26		530.3	OK
1.032	31	37	91.754	-0.496	0.000	0.34		530.1	OK
1.033	32	36	91.280	-0.843	0.000	0.17		529.1	OK
1.034	33	15	91.089	0.816	0.000	0.82		200.2	SURCHARGED*
57.000	108	38	90.990	-0.896	0.000	0.11		185.4	OK
57.001	109	29	90.990	-0.896	0.000	0.10		183.6	OK
57.002	110	21	90.990	-0.896	0.000	0.07		181.0	OK
1.035	109	14	90.990	1.124	0.000	0.23		56.6	SURCHARGED*
1.036	34	23	86.650	0.000	0.000	0.71		59.0	SURCHARGED*



M-EC		Page 313
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	
1.000	1	46	116.588	-0.267	0.000	0.03	2.2	OK
1.001	2	46	116.444	-0.265	0.000	0.03	2.8	OK
1.002	3	46	116.151	-0.337	0.000	0.02	2.8	OK
1.003	4	46	116.023	-0.324	0.000	0.05	8.2	OK
2.000	5	46	118.407	-0.268	0.000	0.02	2.8	OK
2.001	6	46	118.207	-0.254	0.000	0.06	6.0	OK
2.002	6	46	117.956	-0.257	0.000	0.05	6.9	OK
2.003	8	46	117.085	-0.263	0.000	0.04	8.6	OK
3.000	9.1	46	118.240	-0.185	0.000	0.07	3.9	OK
3.001	9	46	116.887	-0.258	0.000	0.05	3.9	OK
3.002	10	46	116.661	-0.322	0.000	0.05	5.2	OK
3.003	11	46	116.501	-0.381	0.000	0.06	10.0	OK
4.000	12	46	117.087	-0.199	0.000	0.03	3.2	OK
3.004	13	46	116.304	-0.456	0.000	0.04	13.2	OK
3.005	14	46	116.121	-0.432	0.000	0.07	18.1	OK
3.006	15	46	115.980	-0.485	0.000	0.08	18.5	OK
2.004	16	46	115.954	-0.489	0.000	0.08	27.1	OK
2.005	17	46	115.860	-0.493	0.000	0.07	30.9	OK
5.000	18	46	116.678	-0.209	0.000	0.02	1.8	OK
2.006	19	46	115.693	-0.486	0.000	0.08	34.1	OK
2.007	20	46	115.528	-0.479	0.000	0.09	35.9	OK
1.004	21	46	115.389	-0.459	0.000	0.13	44.1	OK

M-EC		Page 314
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	46	115.178	-0.609	0.000	0.08		50.2	OK
6.000	23	46	116.740	-0.190	0.000	0.06		2.6	OK
6.001	24	46	116.507	-0.186	0.000	0.07		2.6	OK
6.002	25	46	116.371	-0.254	0.000	0.06		4.3	OK
6.003	26	46	116.077	-0.238	0.000	0.09		5.8	OK
6.004	27	46	115.944	-0.312	0.000	0.07		8.4	OK
6.005	28	46	115.654	-0.329	0.000	0.04		8.4	OK
1.006	29	46	115.015	-0.615	0.000	0.08		62.9	OK
7.000	30	46	118.065	-0.195	0.000	0.04		1.7	OK
7.001	31	46	117.896	-0.199	0.000	0.03		3.9	OK
1.007	8	46	114.742	-0.599	0.000	0.09		67.6	OK
8.000	60	46	116.657	-0.199	0.000	0.03		1.2	OK
8.001	61	46	116.402	-0.282	0.000	0.01		1.3	OK
8.002	35	46	116.139	-0.289	0.000	0.01		1.9	OK
1.008	10	46	114.467	-0.612	0.000	0.21		69.6	OK
9.000	62	46	119.043	-0.257	0.000	0.05		4.3	OK
10.000	40	46	118.760	-0.208	0.000	0.20		12.5	OK
9.001	63	46	118.686	-0.293	0.000	0.11		18.5	OK
9.002	64	46	118.197	-0.321	0.000	0.05		23.4	OK
9.003	148	46	114.908	-0.358	0.000	0.09		24.0	OK
1.009	11	46	114.434	-0.626	0.000	0.13		95.1	OK
1.010	12	46	114.385	-0.591	0.000	0.26		96.6	OK
1.011	13	46	114.341	-0.613	0.000	0.22		97.3	OK
1.012	14	46	114.170	-0.751	0.000	0.10		97.9	OK
1.013	15	46	114.148	-0.722	0.000	0.21		97.9	OK
1.014	16	46	114.025	-0.822	0.000	0.11		97.9	OK
11.000	TWC16	46	117.649	-0.192	0.000	0.05		5.3	OK
11.001	TWC17	46	115.465	-0.195	0.000	0.04		5.3	OK
1.015	17	46	113.935	-0.935	0.000	0.07		103.1	OK
1.016	18	46	113.860	-0.907	0.000	0.08		103.0	OK
12.000	TWC1	46	117.607	-0.194	0.000	0.05		1.8	OK
12.001	TWC2	46	117.449	-0.187	0.000	0.07		2.5	OK
12.002	TWC3	46	117.202	-0.168	0.000	0.15		5.0	OK
12.003	TWC4	46	117.130	-0.167	0.000	0.15		5.0	OK
13.000	TWC5	46	118.107	-0.183	0.000	0.08		3.0	OK
13.001	TWC6	46	117.900	-0.168	0.000	0.15		5.4	OK
13.002	TWC7	46	117.720	-0.178	0.000	0.10		6.9	OK
12.004	TWC8	46	116.962	-0.280	0.000	0.14		13.3	OK
12.005	TWC9	46	116.894	-0.274	0.000	0.16		14.5	OK
12.006	TWC10	46	116.822	-0.298	0.000	0.09		15.0	OK
1.017	TWC11	45	113.806	-0.861	0.000	0.08		117.7	OK
1.018	19	45	113.781	-0.812	0.000	0.06		117.6	OK
14.000	TWC12	46	117.209	-0.200	0.000	0.03		1.1	OK
14.001	TWC13	46	117.044	-0.208	0.000	0.02		2.0	OK
14.002	TWC14	46	116.086	-0.193	0.000	0.05		4.0	OK
1.019	TWC15	45	113.763	-0.565	0.000	0.10		121.7	OK
15.000	65	46	117.117	-0.252	0.000	0.06		4.3	OK
16.000	136	46	118.012	-0.202	0.000	0.02		1.4	OK
16.001	137	46	117.706	-0.201	0.000	0.03		1.4	OK

M-EC		Page 315
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	46	117.448	-0.271	0.000	0.02		2.6	OK
15.001	66	46	116.880	-0.306	0.000	0.08		9.2	OK
15.002	67	46	116.745	-0.299	0.000	0.09		10.4	OK
17.000	9	46	117.290	-0.294	0.000	0.00		0.4	OK
17.001	75	46	117.132	-0.265	0.000	0.03		2.4	OK
17.002	76	46	116.724	-0.496	0.000	0.01		4.7	OK
15.003	68	46	116.511	-0.434	0.000	0.07		17.0	OK
15.004	69	46	116.320	-0.497	0.000	0.06		20.5	OK
15.005	70	46	116.242	-0.486	0.000	0.07		20.5	OK
15.006	71	46	116.197	-0.477	0.000	0.08		23.9	OK
18.000	147	46	116.769	-0.202	0.000	0.02		0.9	OK
18.001	112	46	116.584	-0.263	0.000	0.04		2.0	OK
18.002	113	46	116.403	-0.400	0.000	0.02		2.6	OK
19.000	115	46	117.281	-0.213	0.000	0.01		0.6	OK
19.001	116	46	117.027	-0.203	0.000	0.02		1.6	OK
18.003	77	46	116.356	-0.394	0.000	0.04		4.7	OK
20.000	134	46	117.230	-0.202	0.000	0.02		1.9	OK
18.004	135	46	116.262	-0.438	0.000	0.05		8.2	OK
18.005	78	46	116.203	-0.442	0.000	0.05		9.3	OK
15.007	72	46	116.149	-0.449	0.000	0.12		34.7	OK
15.008	73	46	116.047	-0.407	0.000	0.17		36.5	OK
15.009	74	46	116.003	-0.408	0.000	0.23		36.5	OK
15.010	98	46	115.938	-0.447	0.000	0.14		36.5	OK
15.011	99	46	115.825	-0.458	0.000	0.13		36.5	OK
15.012	101	46	115.643	-0.456	0.000	0.13		36.5	OK
21.000	142	46	117.095	-0.194	0.000	0.05		2.2	OK
21.001	143	46	116.676	-0.191	0.000	0.05		3.2	OK
22.000	118	46	117.086	-0.220	0.000	0.00		0.2	OK
22.001	119	46	117.021	-0.199	0.000	0.03		1.0	OK
22.002	120	46	116.968	-0.193	0.000	0.05		3.0	OK
23.000	129	46	116.607	-0.270	0.000	0.02		1.7	OK
23.001	130	46	116.471	-0.271	0.000	0.02		2.1	OK
22.003	121	46	116.258	-0.236	0.000	0.10		6.7	OK
24.000	131	46	116.892	-0.186	0.000	0.07		2.9	OK
24.001	132	46	116.613	-0.169	0.000	0.14		3.8	OK
24.002	133	46	116.477	-0.264	0.000	0.04		4.5	OK
22.004	122	46	116.049	-0.375	0.000	0.07		12.0	OK
22.005	123	46	115.974	-0.354	0.000	0.09		13.7	OK
25.000	139	46	116.701	-0.185	0.000	0.07		2.0	OK
25.001	140	46	116.589	-0.185	0.000	0.07		4.5	OK
22.006	124	46	115.918	-0.344	0.000	0.13		19.1	OK
22.007	125	46	115.710	-0.496	0.000	0.07		19.1	OK
22.008	126	46	115.515	-0.645	0.000	0.04		20.4	OK
22.009	127	46	115.457	-0.606	0.000	0.08		20.4	OK
21.002	149	46	115.350	-0.665	0.000	0.03		23.7	OK
1.020	20	45	113.737	0.183	0.000	2.74		181.4	SURCHARGED
1.021	108	45	113.409	-0.136	0.000	0.72		181.6	OK
1.022	21	45	113.272	-0.137	0.000	0.71		181.6	OK
1.023	22	45	113.155	-0.066	0.000	0.74		181.1	OK

M-EC		Page 316
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe (l/s)	Status
26.000	89	46	119.281	-0.657	0.000	0.01		4.0	OK
26.001	90	46	118.952	-0.655	0.000	0.01		4.7	OK
27.000	200	46	119.537	-0.279	0.000	0.01		2.3	OK
27.001	109	46	118.798	-0.481	0.000	0.02		2.6	OK
26.002	91	46	118.544	-0.704	0.000	0.01		7.3	OK
28.000	TWD27	46	119.353	-0.264	0.000	0.04		4.6	OK
26.003	91A	46	118.402	-0.760	0.000	0.02		12.8	OK
26.004	92	46	118.323	-0.741	0.000	0.02		14.6	OK
26.005	93	46	118.252	-0.751	0.000	0.02		14.6	OK
29.000	TWD29	46	119.375	-0.190	0.000	0.06		2.1	OK
29.001	TWD30	46	119.203	-0.255	0.000	0.05		3.5	OK
29.002	TWD31	46	119.081	-0.267	0.000	0.03		4.7	OK
26.006	94	46	118.129	-0.737	0.000	0.03		19.4	OK
26.007	95	46	118.018	-0.737	0.000	0.03		20.0	OK
30.000	201	46	119.178	-0.263	0.000	0.04		3.1	OK
30.001	202	46	118.936	-0.254	0.000	0.06		4.2	OK
30.002	203	46	118.863	-0.238	0.000	0.10		7.3	OK
30.003	204	46	118.656	-0.327	0.000	0.04		8.5	OK
30.004	117	46	118.370	-0.301	0.000	0.09		9.1	OK
26.008	95A	46	117.890	-0.721	0.000	0.04		30.8	OK
26.009	96	46	117.705	-0.728	0.000	0.03		30.8	OK
26.010	97	46	117.304	-0.734	0.000	0.03		30.8	OK
31.000	121	46	116.918	-0.702	0.000	0.05		19.7	OK
32.000	TWD4	46	120.060	-0.201	0.000	0.03		1.2	OK
32.001	TWD5	46	119.855	-0.194	0.000	0.05		2.7	OK
33.000	TWD16	46	119.462	-0.249	0.000	0.07		4.5	OK
32.002	TWD6	46	119.279	-0.309	0.000	0.07		7.8	OK
34.000	TWD17	46	119.508	-0.199	0.000	0.03		1.7	OK
35.000	TWD18	46	119.438	-0.200	0.000	0.03		1.2	OK
32.003	TWD7	46	119.129	-0.311	0.000	0.07		11.4	OK
32.004	TWD8	46	118.610	-0.373	0.000	0.07		14.1	OK
32.005	TWD9	46	118.491	-0.360	0.000	0.09		15.0	OK
32.006	TWD10	46	118.442	-0.359	0.000	0.09		15.2	OK
36.000	TWD19	46	119.533	-0.188	0.000	0.07		4.5	OK
32.007	TWD11	46	117.266	-0.455	0.000	0.13		20.2	OK
37.000	TWD20	46	119.292	-0.194	0.000	0.05		1.7	OK
37.001	TWD21	46	119.014	-0.257	0.000	0.05		3.4	OK
37.002	TWD22	46	118.819	-0.247	0.000	0.07		4.8	OK
37.003	TWD23	46	118.544	-0.316	0.000	0.06		6.3	OK
37.004	TWD24	46	118.456	-0.330	0.000	0.04		7.4	OK
37.005	TWD25	46	117.969	-0.329	0.000	0.04		8.4	OK
32.008	TWD12	46	117.160	-0.540	0.000	0.09		30.3	OK
38.000	TWD26	46	119.248	-0.202	0.000	0.02		2.2	OK
32.009	TWD13	46	117.025	-0.590	0.000	0.08		33.4	OK
32.010	TWD14	46	116.963	-0.584	0.000	0.08		34.7	OK
32.011	TWD15	46	116.914	-0.581	0.000	0.12		36.3	OK
26.011	98	46	116.672	-0.916	0.000	0.04		86.8	OK
26.012	99	46	116.124	-0.896	0.000	0.05		86.8	OK
26.013	100	46	115.911	-0.818	0.000	0.11		86.8	OK

M-EC		Page 317
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.024	23	45	113.104	-0.028	0.000	1.03		266.4	OK
1.025	24	45	112.887	-0.039	0.000	1.04		266.0	OK
1.026	25	45	112.582	-0.207	0.000	0.42		265.9	OK
39.000	79	46	121.653	-0.520	0.000	0.00		1.0	OK
39.001	80	46	121.248	-0.511	0.000	0.01		2.6	OK
39.002	81	46	120.671	-0.656	0.000	0.01		3.3	OK
40.000	130	46	121.002	-0.199	0.000	0.03		1.1	OK
41.000	BAR1	46	121.677	-0.128	0.000	0.05		1.5	OK
41.001	131	46	120.841	-0.333	0.000	0.03		2.7	OK
39.003	81A	46	120.499	-0.635	0.000	0.01		7.6	OK
42.000	133	46	120.661	-0.285	0.000	0.01		0.6	OK
39.004	82	46	120.219	-0.686	0.000	0.02		9.6	OK
39.005	83	46	120.138	-0.697	0.000	0.02		9.6	OK
43.000	BAR2	46	121.503	-0.126	0.000	0.06		2.0	OK
43.001	136	46	120.367	-0.325	0.000	0.04		3.2	OK
39.006	83A	46	119.997	-0.673	0.000	0.02		13.7	OK
44.000	206	46	120.454	-0.403	0.000	0.02		2.1	OK
44.001	207	46	120.420	-0.399	0.000	0.02		2.6	OK
44.002	208	46	120.388	-0.388	0.000	0.03		4.4	OK
44.003	209	46	120.341	-0.364	0.000	0.05		4.4	OK
45.000	210	46	120.884	-0.201	0.000	0.03		1.2	OK
45.001	211	46	120.677	-0.265	0.000	0.03		2.2	OK
45.002	212	46	120.424	-0.332	0.000	0.03		3.2	OK
44.004	213	46	120.330	-0.352	0.000	0.10		10.0	OK
44.005	214	46	120.291	-0.355	0.000	0.08		10.5	OK
44.006	215	46	120.238	-0.343	0.000	0.13		12.3	OK
44.007	138	46	120.200	-0.357	0.000	0.10		12.3	OK
39.007	84	46	119.816	-0.709	0.000	0.05		28.5	OK
46.000	BAR4	46	121.524	-0.185	0.000	0.07		2.8	OK
46.001	BAR5	46	121.312	-0.176	0.000	0.11		3.9	OK
47.000	BAR6	46	122.026	-0.125	0.000	0.07		1.1	OK
47.001	BAR7	46	121.685	-0.186	0.000	0.07		2.6	OK
47.002	BAR8	46	121.538	-0.189	0.000	0.06		3.6	OK
46.002	BAR9	46	121.152	-0.227	0.000	0.13		8.3	OK
46.003	BAR10	46	121.050	-0.251	0.000	0.06		10.5	OK
46.004	140	46	120.134	-0.361	0.000	0.09		10.5	OK
39.008	85	46	119.762	-0.706	0.000	0.05		38.9	OK
39.009	86	46	119.627	-0.707	0.000	0.05		40.6	OK
48.000	BAR3	46	120.817	-0.131	0.000	0.04		1.3	OK
48.001	143	46	119.771	-0.403	0.000	0.02		2.8	OK
49.000	216	46	120.401	-0.269	0.000	0.02		4.1	OK
49.001	144	46	119.798	-0.397	0.000	0.03		4.4	OK
39.010	87	46	119.380	-0.772	0.000	0.05		47.7	OK
39.011	88	46	119.247	-0.760	0.000	0.06		55.8	OK
39.012	103	46	119.097	-0.754	0.000	0.06		60.5	OK
50.000	BAR11	46	121.323	-0.122	0.000	0.08		1.4	OK
50.001	BAR12	46	120.950	-0.188	0.000	0.06		3.3	OK
51.000	BAR13	46	120.763	-0.205	0.000	0.02		0.5	OK
50.002	BAR14	46	120.738	-0.181	0.000	0.09		4.6	OK

M-EC		Page 318
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 960 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	46	120.828	-0.123	0.000	0.08		1.3	OK
52.001	BAR16	46	120.534	-0.192	0.000	0.05		2.3	OK
50.003	BAR17	46	120.387	-0.231	0.000	0.12		7.4	OK
50.004	BAR18	46	120.313	-0.228	0.000	0.13		8.2	OK
50.005	BAR19	46	120.193	-0.256	0.000	0.05		9.3	OK
50.006	149	46	119.342	-0.383	0.000	0.05		9.3	OK
53.000	TWD1	46	120.412	-0.202	0.000	0.02		0.9	OK
54.000	TWD3	46	120.664	-0.218	0.000	0.01		0.6	OK
53.001	TWD2	46	120.047	-0.199	0.000	0.03		2.9	OK
39.013	104	46	118.849	-0.821	0.000	0.11		72.6	OK
39.014	104A	46	118.766	-0.869	0.000	0.06		73.0	OK
55.000	BAR20	46	121.375	-0.118	0.000	0.10		1.8	OK
55.001	BAR21	46	120.864	-0.189	0.000	0.06		3.3	OK
56.000	BAR22	46	120.421	-0.184	0.000	0.08		2.8	OK
56.001	BAR23	46	120.294	-0.175	0.000	0.11		3.7	OK
55.002	BAR24	46	120.174	-0.240	0.000	0.09		7.2	OK
55.003	BAR25	46	119.889	-0.305	0.000	0.08		8.5	OK
55.004	BAR26	46	119.785	-0.331	0.000	0.03		10.1	OK
39.015	105	46	118.593	-0.881	0.000	0.06		83.2	OK
39.016	106	46	118.399	-1.748	0.000	0.01		83.1	OK
39.017	107	46	115.742	-0.805	0.000	0.04		83.1	OK
1.027	26	45	112.070	-0.838	0.000	0.09		348.5	OK
1.028	27	45	109.266	-0.481	0.000	0.17		348.4	OK
1.029	28	45	106.321	-0.870	0.000	0.08		348.1	OK
1.030	29	45	97.357	-1.120	0.000	0.06		347.8	OK
1.031	30	45	92.789	-0.593	0.000	0.17		347.8	OK
1.032	31	45	91.611	-0.639	0.000	0.22		348.2	OK
1.033	32	45	91.151	-0.972	0.000	0.11		348.2	OK
1.034	33	14	91.096	0.823	0.000	0.61		150.2	SURCHARGED*
57.000	108	36	91.009	-0.877	0.000	0.07		107.6	OK
57.001	109	27	91.007	-0.879	0.000	0.05		105.0	OK
57.002	110	20	91.005	-0.881	0.000	0.04		94.3	OK
1.035	109	13	91.002	1.136	0.000	0.25		59.8	SURCHARGED*
1.036	34	22	86.650	0.000	0.000	0.71		58.9	SURCHARGED*

M-EC		Page 319
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0 Inlet Coefficient 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 4  
Number of Online Controls 1 Number of Time/Area Diagrams 0  
Number of Offline Controls 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

Profile(s) Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	1	50	116.583	-0.272	0.000	0.02		1.6	OK
1.001	2	50	116.440	-0.269	0.000	0.02		2.0	OK
1.002	3	50	116.142	-0.346	0.000	0.02		2.0	OK
1.003	4	50	116.016	-0.331	0.000	0.03		6.0	OK
2.000	5	50	118.400	-0.275	0.000	0.02		2.0	OK
2.001	6	50	118.200	-0.261	0.000	0.04		4.3	OK
2.002	6	50	117.950	-0.263	0.000	0.04		5.0	OK
2.003	8	50	117.080	-0.268	0.000	0.03		6.2	OK
3.000	9.1	50	118.234	-0.191	0.000	0.05		2.8	OK
3.001	9	50	116.881	-0.264	0.000	0.04		2.8	OK
3.002	10	50	116.653	-0.330	0.000	0.04		3.8	OK
3.003	11	50	116.490	-0.392	0.000	0.04		7.2	OK
4.000	12	50	117.084	-0.202	0.000	0.02		2.4	OK
3.004	13	50	116.295	-0.465	0.000	0.03		9.6	OK
3.005	14	50	116.106	-0.447	0.000	0.05		13.1	OK
3.006	15	50	115.959	-0.506	0.000	0.06		13.5	OK
2.004	16	50	115.935	-0.508	0.000	0.06		19.7	OK
2.005	17	50	115.842	-0.511	0.000	0.05		22.4	OK
5.000	18	50	116.674	-0.213	0.000	0.01		1.3	OK
2.006	19	50	115.673	-0.506	0.000	0.06		24.7	OK
2.007	20	50	115.506	-0.501	0.000	0.07		26.1	OK
1.004	21	50	115.370	-0.478	0.000	0.09		32.0	OK

M-EC		Page 320
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	50	115.154	-0.633	0.000	0.06		36.4	OK
6.000	23	50	116.735	-0.195	0.000	0.04		1.9	OK
6.001	24	50	116.501	-0.192	0.000	0.05		1.9	OK
6.002	25	50	116.364	-0.261	0.000	0.04		3.1	OK
6.003	26	50	116.066	-0.249	0.000	0.07		4.2	OK
6.004	27	50	115.934	-0.322	0.000	0.05		6.1	OK
6.005	28	50	115.648	-0.335	0.000	0.03		6.1	OK
1.006	29	50	114.992	-0.638	0.000	0.05		45.7	OK
7.000	30	50	118.061	-0.199	0.000	0.03		1.3	OK
7.001	31	50	117.893	-0.202	0.000	0.02		2.8	OK
1.007	8	50	114.716	-0.625	0.000	0.07		49.1	OK
8.000	60	50	116.654	-0.202	0.000	0.02		0.8	OK
8.001	61	50	116.397	-0.287	0.000	0.01		1.0	OK
8.002	35	50	116.136	-0.292	0.000	0.01		1.4	OK
1.008	10	50	114.421	-0.658	0.000	0.15		50.5	OK
9.000	62	50	119.037	-0.263	0.000	0.04		3.1	OK
10.000	40	50	118.745	-0.223	0.000	0.15		9.1	OK
9.001	63	50	118.674	-0.305	0.000	0.08		13.4	OK
9.002	64	50	118.189	-0.329	0.000	0.04		17.0	OK
9.003	148	50	114.892	-0.374	0.000	0.07		17.5	OK
1.009	11	50	114.388	-0.672	0.000	0.09		69.1	OK
1.010	12	50	114.338	-0.638	0.000	0.19		70.2	OK
1.011	13	50	114.295	-0.659	0.000	0.16		70.6	OK
1.012	14	50	114.118	-0.803	0.000	0.08		71.1	OK
1.013	15	50	114.095	-0.775	0.000	0.16		71.1	OK
1.014	16	50	113.990	-0.857	0.000	0.08		71.1	OK
11.000	TWC16	50	117.645	-0.196	0.000	0.04		3.8	OK
11.001	TWC17	50	115.461	-0.199	0.000	0.03		3.8	OK
1.015	17	50	113.884	-0.986	0.000	0.05		74.9	OK
1.016	18	50	113.795	-0.972	0.000	0.06		74.9	OK
12.000	TWC1	50	117.603	-0.198	0.000	0.03		1.3	OK
12.001	TWC2	50	117.442	-0.194	0.000	0.05		1.8	OK
12.002	TWC3	50	117.194	-0.176	0.000	0.11		3.7	OK
12.003	TWC4	50	117.122	-0.175	0.000	0.11		3.7	OK
13.000	TWC5	50	118.100	-0.190	0.000	0.06		2.2	OK
13.001	TWC6	50	117.892	-0.176	0.000	0.11		4.0	OK
13.002	TWC7	50	117.712	-0.186	0.000	0.07		5.0	OK
12.004	TWC8	50	116.948	-0.294	0.000	0.10		9.6	OK
12.005	TWC9	50	116.879	-0.289	0.000	0.12		10.6	OK
12.006	TWC10	50	116.808	-0.312	0.000	0.07		10.9	OK
1.017	TWC11	50	113.716	-0.951	0.000	0.06		85.8	OK
1.018	19	50	113.671	-0.922	0.000	0.04		85.8	OK
14.000	TWC12	50	117.206	-0.203	0.000	0.02		0.8	OK
14.001	TWC13	50	117.039	-0.213	0.000	0.01		1.4	OK
14.002	TWC14	50	116.082	-0.197	0.000	0.04		2.9	OK
1.019	TWC15	50	113.658	-0.670	0.000	0.07		88.6	OK
15.000	65	50	117.110	-0.259	0.000	0.05		3.1	OK
16.000	136	50	118.007	-0.207	0.000	0.02		1.0	OK
16.001	137	50	117.702	-0.205	0.000	0.02		1.1	OK



M-EC		Page 321
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	50	117.440	-0.279	0.000	0.01		1.9	OK
15.001	66	50	116.868	-0.318	0.000	0.06		6.7	OK
15.002	67	50	116.732	-0.312	0.000	0.07		7.6	OK
17.000	9	50	117.289	-0.295	0.000	0.00		0.3	OK
17.001	75	50	117.128	-0.269	0.000	0.02		1.8	OK
17.002	76	50	116.716	-0.504	0.000	0.01		3.4	OK
15.003	68	50	116.496	-0.449	0.000	0.05		12.3	OK
15.004	69	50	116.302	-0.515	0.000	0.05		14.9	OK
15.005	70	50	116.221	-0.507	0.000	0.05		14.9	OK
15.006	71	50	116.175	-0.499	0.000	0.06		17.3	OK
18.000	147	50	116.763	-0.208	0.000	0.02		0.6	OK
18.001	112	50	116.580	-0.267	0.000	0.03		1.4	OK
18.002	113	50	116.397	-0.406	0.000	0.02		1.9	OK
19.000	115	50	117.278	-0.216	0.000	0.01		0.4	OK
19.001	116	50	117.021	-0.209	0.000	0.02		1.2	OK
18.003	77	50	116.349	-0.401	0.000	0.03		3.4	OK
20.000	134	50	117.224	-0.208	0.000	0.02		1.4	OK
18.004	135	50	116.248	-0.452	0.000	0.04		5.9	OK
18.005	78	50	116.188	-0.457	0.000	0.04		6.8	OK
15.007	72	50	116.125	-0.473	0.000	0.09		25.2	OK
15.008	73	50	116.016	-0.438	0.000	0.12		26.5	OK
15.009	74	50	115.972	-0.439	0.000	0.16		26.5	OK
15.010	98	50	115.916	-0.469	0.000	0.10		26.5	OK
15.011	99	50	115.806	-0.477	0.000	0.09		26.5	OK
15.012	101	50	115.623	-0.476	0.000	0.10		26.5	OK
21.000	142	50	117.091	-0.198	0.000	0.03		1.6	OK
21.001	143	50	116.671	-0.196	0.000	0.04		2.4	OK
22.000	118	50	117.085	-0.221	0.000	0.00		0.1	OK
22.001	119	50	117.018	-0.202	0.000	0.02		0.7	OK
22.002	120	50	116.963	-0.198	0.000	0.03		2.2	OK
23.000	129	50	116.599	-0.278	0.000	0.02		1.2	OK
23.001	130	50	116.463	-0.279	0.000	0.01		1.5	OK
22.003	121	50	116.248	-0.246	0.000	0.07		4.9	OK
24.000	131	50	116.886	-0.193	0.000	0.05		2.1	OK
24.001	132	50	116.605	-0.177	0.000	0.10		2.8	OK
24.002	133	50	116.472	-0.268	0.000	0.03		3.3	OK
22.004	122	50	116.037	-0.387	0.000	0.05		8.7	OK
22.005	123	50	115.959	-0.369	0.000	0.07		10.0	OK
25.000	139	50	116.695	-0.191	0.000	0.05		1.5	OK
25.001	140	50	116.582	-0.192	0.000	0.05		3.3	OK
22.006	124	50	115.904	-0.358	0.000	0.09		13.9	OK
22.007	125	50	115.693	-0.513	0.000	0.05		13.9	OK
22.008	126	50	115.497	-0.662	0.000	0.03		14.8	OK
22.009	127	50	115.432	-0.631	0.000	0.06		14.8	OK
21.002	149	50	115.341	-0.674	0.000	0.02		17.2	OK
1.020	20	50	113.636	0.082	0.000	2.00		132.3	SURCHARGED
1.021	108	50	113.364	-0.181	0.000	0.53		132.2	OK
1.022	21	50	113.226	-0.183	0.000	0.52		132.0	OK
1.023	22	50	113.064	-0.157	0.000	0.54		132.1	OK

M-EC		Page 322
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	50	119.276	-0.662	0.000	0.00		2.9	OK
26.001	90	50	118.946	-0.661	0.000	0.00		3.4	OK
27.000	200	50	119.531	-0.285	0.000	0.01		1.6	OK
27.001	109	50	118.786	-0.493	0.000	0.01		1.9	OK
26.002	91	50	118.531	-0.717	0.000	0.01		5.3	OK
28.000	TWD27	50	119.349	-0.268	0.000	0.03		3.4	OK
26.003	91A	50	118.385	-0.777	0.000	0.01		9.3	OK
26.004	92	50	118.303	-0.761	0.000	0.02		10.6	OK
26.005	93	50	118.232	-0.771	0.000	0.01		10.6	OK
29.000	TWD29	50	119.370	-0.195	0.000	0.04		1.5	OK
29.001	TWD30	50	119.196	-0.262	0.000	0.04		2.5	OK
29.002	TWD31	50	119.076	-0.272	0.000	0.02		3.4	OK
26.006	94	50	118.113	-0.753	0.000	0.02		14.1	OK
26.007	95	50	118.004	-0.751	0.000	0.02		14.5	OK
30.000	201	50	119.174	-0.267	0.000	0.03		2.2	OK
30.001	202	50	118.929	-0.261	0.000	0.04		3.0	OK
30.002	203	50	118.853	-0.248	0.000	0.07		5.3	OK
30.003	204	50	118.650	-0.333	0.000	0.03		6.2	OK
30.004	117	50	118.357	-0.314	0.000	0.06		6.6	OK
26.008	95A	50	117.877	-0.734	0.000	0.03		22.3	OK
26.009	96	50	117.694	-0.739	0.000	0.02		22.3	OK
26.010	97	50	117.291	-0.747	0.000	0.02		22.3	OK
31.000	121	50	116.900	-0.720	0.000	0.04		14.3	OK
32.000	TWD4	50	120.055	-0.206	0.000	0.02		0.9	OK
32.001	TWD5	50	119.850	-0.199	0.000	0.03		2.0	OK
33.000	TWD16	50	119.454	-0.257	0.000	0.05		3.3	OK
32.002	TWD6	50	119.268	-0.320	0.000	0.05		5.6	OK
34.000	TWD17	50	119.505	-0.202	0.000	0.02		1.2	OK
35.000	TWD18	50	119.435	-0.203	0.000	0.02		0.9	OK
32.003	TWD7	50	119.119	-0.321	0.000	0.05		8.3	OK
32.004	TWD8	50	118.597	-0.386	0.000	0.05		10.2	OK
32.005	TWD9	50	118.475	-0.376	0.000	0.06		10.9	OK
32.006	TWD10	50	118.425	-0.376	0.000	0.07		11.0	OK
36.000	TWD19	50	119.527	-0.194	0.000	0.05		3.3	OK
32.007	TWD11	50	117.246	-0.475	0.000	0.10		14.7	OK
37.000	TWD20	50	119.287	-0.199	0.000	0.03		1.2	OK
37.001	TWD21	50	119.008	-0.263	0.000	0.04		2.5	OK
37.002	TWD22	50	118.810	-0.256	0.000	0.05		3.5	OK
37.003	TWD23	50	118.535	-0.325	0.000	0.04		4.6	OK
37.004	TWD24	50	118.451	-0.335	0.000	0.03		5.4	OK
37.005	TWD25	50	117.964	-0.334	0.000	0.03		6.1	OK
32.008	TWD12	50	117.136	-0.564	0.000	0.06		22.0	OK
38.000	TWD26	50	119.242	-0.208	0.000	0.02		1.6	OK
32.009	TWD13	50	117.001	-0.614	0.000	0.06		24.3	OK
32.010	TWD14	50	116.939	-0.608	0.000	0.06		25.2	OK
32.011	TWD15	50	116.890	-0.605	0.000	0.08		26.3	OK
26.011	98	50	116.655	-0.933	0.000	0.03		63.0	OK
26.012	99	50	116.101	-0.919	0.000	0.04		63.0	OK
26.013	100	50	115.877	-0.852	0.000	0.08		63.0	OK

M-EC		Page 323
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.024	23	50	113.003	-0.129	0.000	0.75		194.6	OK
1.025	24	50	112.800	-0.126	0.000	0.76		194.7	OK
1.026	25	50	112.554	-0.235	0.000	0.31		194.8	OK
39.000	79	50	121.652	-0.521	0.000	0.00		0.7	OK
39.001	80	50	121.244	-0.515	0.000	0.00		1.9	OK
39.002	81	50	120.666	-0.661	0.000	0.00		2.4	OK
40.000	130	50	120.999	-0.202	0.000	0.02		0.8	OK
41.000	BAR1	50	121.674	-0.131	0.000	0.04		1.1	OK
41.001	131	50	120.836	-0.338	0.000	0.02		2.0	OK
39.003	81A	50	120.488	-0.646	0.000	0.01		5.5	OK
42.000	133	50	120.657	-0.289	0.000	0.01		0.4	OK
39.004	82	50	120.201	-0.704	0.000	0.01		7.0	OK
39.005	83	50	120.124	-0.711	0.000	0.01		7.0	OK
43.000	BAR2	50	121.499	-0.130	0.000	0.05		1.4	OK
43.001	136	50	120.360	-0.332	0.000	0.03		2.3	OK
39.006	83A	50	119.978	-0.692	0.000	0.02		10.0	OK
44.000	206	50	120.445	-0.412	0.000	0.01		1.5	OK
44.001	207	50	120.414	-0.406	0.000	0.02		1.9	OK
44.002	208	50	120.378	-0.398	0.000	0.02		3.2	OK
44.003	209	50	120.326	-0.379	0.000	0.03		3.2	OK
45.000	210	50	120.880	-0.205	0.000	0.02		0.9	OK
45.001	211	50	120.673	-0.269	0.000	0.02		1.6	OK
45.002	212	50	120.419	-0.337	0.000	0.02		2.4	OK
44.004	213	50	120.315	-0.367	0.000	0.07		7.3	OK
44.005	214	50	120.276	-0.370	0.000	0.06		7.6	OK
44.006	215	50	120.223	-0.358	0.000	0.09		8.9	OK
44.007	138	50	120.185	-0.372	0.000	0.07		8.9	OK
39.007	84	50	119.800	-0.725	0.000	0.03		20.7	OK
46.000	BAR4	50	121.517	-0.192	0.000	0.05		2.0	OK
46.001	BAR5	50	121.305	-0.183	0.000	0.08		2.8	OK
47.000	BAR6	50	122.022	-0.129	0.000	0.05		0.8	OK
47.001	BAR7	50	121.678	-0.193	0.000	0.05		1.9	OK
47.002	BAR8	50	121.532	-0.195	0.000	0.04		2.6	OK
46.002	BAR9	50	121.142	-0.237	0.000	0.10		6.0	OK
46.003	BAR10	50	121.042	-0.259	0.000	0.05		7.6	OK
46.004	140	50	120.118	-0.377	0.000	0.06		7.6	OK
39.008	85	50	119.745	-0.723	0.000	0.04		28.3	OK
39.009	86	50	119.611	-0.723	0.000	0.04		29.5	OK
48.000	BAR3	50	120.815	-0.133	0.000	0.03		1.0	OK
48.001	143	50	119.762	-0.412	0.000	0.02		2.0	OK
49.000	216	50	120.395	-0.275	0.000	0.02		3.0	OK
49.001	144	50	119.792	-0.403	0.000	0.02		3.2	OK
39.010	87	50	119.362	-0.790	0.000	0.04		34.7	OK
39.011	88	50	119.225	-0.782	0.000	0.04		40.5	OK
39.012	103	50	119.074	-0.777	0.000	0.05		43.9	OK
50.000	BAR11	50	121.318	-0.127	0.000	0.06		1.0	OK
50.001	BAR12	50	120.944	-0.194	0.000	0.05		2.4	OK
51.000	BAR13	50	120.757	-0.211	0.000	0.01		0.4	OK
50.002	BAR14	50	120.730	-0.189	0.000	0.06		3.3	OK

M-EC		Page 324
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 1440 minute 30 year Winter I+0% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	50	120.824	-0.127	0.000	0.06		0.9	OK
52.001	BAR16	50	120.529	-0.197	0.000	0.04		1.7	OK
50.003	BAR17	50	120.377	-0.241	0.000	0.09		5.4	OK
50.004	BAR18	50	120.303	-0.238	0.000	0.09		6.0	OK
50.005	BAR19	50	120.187	-0.262	0.000	0.04		6.7	OK
50.006	149	50	119.332	-0.393	0.000	0.04		6.7	OK
53.000	TWD1	50	120.408	-0.206	0.000	0.02		0.7	OK
54.000	TWD3	50	120.662	-0.220	0.000	0.00		0.4	OK
53.001	TWD2	50	120.044	-0.202	0.000	0.02		2.1	OK
39.013	104	50	118.815	-0.855	0.000	0.08		52.7	OK
39.014	104A	50	118.736	-0.899	0.000	0.05		53.0	OK
55.000	BAR20	50	121.370	-0.123	0.000	0.07		1.3	OK
55.001	BAR21	50	120.858	-0.195	0.000	0.04		2.4	OK
56.000	BAR22	50	120.414	-0.191	0.000	0.06		2.1	OK
56.001	BAR23	50	120.286	-0.183	0.000	0.08		2.7	OK
55.002	BAR24	50	120.163	-0.251	0.000	0.06		5.2	OK
55.003	BAR25	50	119.877	-0.317	0.000	0.06		6.2	OK
55.004	BAR26	50	119.780	-0.336	0.000	0.02		7.3	OK
39.015	105	50	118.565	-0.909	0.000	0.04		60.4	OK
39.016	106	50	118.366	-1.781	0.000	0.01		60.4	OK
39.017	107	50	115.707	-0.840	0.000	0.03		60.4	OK
1.027	26	50	112.012	-0.896	0.000	0.07		254.7	OK
1.028	27	50	109.216	-0.531	0.000	0.12		254.8	OK
1.029	28	50	106.270	-0.921	0.000	0.06		255.0	OK
1.030	29	50	97.304	-1.173	0.000	0.04		255.2	OK
1.031	30	50	92.724	-0.658	0.000	0.12		255.3	OK
1.032	31	50	91.519	-0.731	0.000	0.16		255.4	OK
1.033	32	50	91.079	-1.044	0.000	0.08		255.2	OK
1.034	33	16	91.075	0.802	0.000	0.48		118.2	SURCHARGED*
57.000	108	40	90.982	-0.904	0.000	0.05		78.0	OK
57.001	109	30	90.980	-0.906	0.000	0.04		75.3	OK
57.002	110	23	90.979	-0.907	0.000	0.03		66.9	OK
1.035	109	15	90.977	1.111	0.000	0.23		56.2	SURCHARGED*
1.036	34	27	86.650	0.000	0.000	0.70		57.8	SURCHARGED*

M-EC		Page 325
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details


Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850  
Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	1	5	117.972	1.117	8.735	0.64	51.1	FLOOD		
1.001	2	4	117.987	1.278	3.525	0.70	61.1	FLOOD		
1.002	3	2	118.102	1.614	0.000	0.32	39.2	FLOOD RISK		
1.003	4	2	118.166	1.819	0.000	0.84	149.4	FLOOD RISK		
2.000	5	1	119.706	1.031	0.000	0.52	59.8	SURCHARGED		
2.001	6	1	119.577	1.116	0.000	1.26	130.5	SURCHARGED		
2.002	6	1	119.348	1.135	0.000	1.03	140.3	SURCHARGED		
2.003	8	2	118.862	1.514	0.000	0.72	172.7	SURCHARGED		
3.000	9.1	1	119.408	0.983	7.897	1.10	57.5	FLOOD		
3.001	9	5	118.397	1.252	30.915	0.53	42.9	FLOOD		
3.002	10	4	118.395	1.412	25.153	0.58	62.1	FLOOD		
3.003	11	1	118.581	1.699	0.000	0.83	145.8	FLOOD RISK		
4.000	12	1	118.809	1.523	0.000	0.71	72.2	FLOOD RISK		
3.004	13	2	118.617	1.857	0.000	0.53	165.8	FLOOD RISK		
3.005	14	2	118.601	2.048	0.000	1.02	251.3	SURCHARGED		
3.006	15	3	118.534	2.069	0.000	1.08	242.4	SURCHARGED		
2.004	16	3	118.526	2.083	0.000	1.03	358.2	SURCHARGED		
2.005	17	4	118.481	2.128	0.000	1.02	425.2	SURCHARGED		
5.000	18	4	118.388	1.501	0.000	0.38	44.8	SURCHARGED		
2.006	19	4	118.339	2.160	0.000	1.10	458.7	SURCHARGED		
2.007	20	4	118.197	2.190	0.000	1.18	472.0	SURCHARGED		
1.004	21	4	118.029	2.181	0.000	1.67	578.5	SURCHARGED		

M-EC		Page 326
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 15 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	6	117.844	2.057	0.000	1.12		693.8	SURCHARGED
6.000	23	5	118.248	1.318	2.808	1.10		49.4	FLOOD
6.001	24	4	118.238	1.545	0.006	1.17		42.9	FLOOD
6.002	25	4	118.230	1.605	0.000	0.99		74.1	FLOOD RISK
6.003	26	4	118.159	1.844	0.000	1.62		99.2	SURCHARGED
6.004	27	4	118.078	1.822	0.000	1.15		145.0	SURCHARGED
6.005	28	5	117.967	1.984	0.000	0.55		127.7	SURCHARGED
1.006	29	8	117.775	2.145	0.000	1.03		860.7	SURCHARGED
7.000	30	2	118.316	0.056	0.000	1.16		45.2	SURCHARGED
7.001	31	2	118.119	0.024	0.000	0.86		102.1	SURCHARGED
1.007	8	8	117.597	2.256	0.000	1.26		945.8	SURCHARGED
8.000	60	8	117.461	0.605	0.000	0.80		30.6	SURCHARGED
8.001	61	8	117.438	0.754	0.000	0.33		35.3	SURCHARGED
8.002	35	8	117.426	0.998	0.000	0.21		51.7	SURCHARGED
1.008	10	8	117.409	2.330	0.000	2.83		939.7	SURCHARGED
9.000	62	1	120.353	1.053	0.000	1.25		103.6	SURCHARGED
10.000	40	1	120.205	1.237	37.026	2.85		174.9	FLOOD
9.001	63	2	119.830	0.851	0.000	1.76		294.9	SURCHARGED
9.002	64	4	118.915	0.397	0.000	0.88		403.5	SURCHARGED
9.003	148	7	117.633	2.367	0.000	1.55		396.0	SURCHARGED
1.009	11	8	117.372	2.312	0.000	1.77		1300.1	SURCHARGED
1.010	12	9	117.216	2.240	0.000	3.46		1294.5	SURCHARGED
1.011	13	9	117.205	2.251	0.000	2.90		1261.6	SURCHARGED
1.012	14	9	117.191	2.270	0.000	1.28		1214.1	SURCHARGED
1.013	15	9	117.181	2.311	0.000	2.59		1184.8	SURCHARGED
1.014	16	9	117.172	2.325	0.000	1.27		1169.6	SURCHARGED
11.000	TWC16	1	118.863	1.022	0.000	1.20		117.2	FLOOD RISK
11.001	TWC17	9	117.162	1.502	0.000	0.91		114.1	SURCHARGED
1.015	17	9	117.162	2.292	0.000	0.84		1204.9	SURCHARGED
1.016	18	9	117.154	2.387	0.000	0.87		1173.2	SURCHARGED
12.000	TWC1	1	119.105	1.304	4.030	1.26		46.9	FLOOD
12.001	TWC2	1	119.130	1.494	0.000	1.39		53.1	FLOOD RISK
12.002	TWC3	1	118.984	1.614	0.000	2.60		89.7	FLOOD RISK
12.003	TWC4	1	118.492	1.195	0.000	2.68		88.5	SURCHARGED
13.000	TWC5	1	119.606	1.316	15.675	1.85		70.2	FLOOD
13.001	TWC6	1	119.599	1.531	1.700	1.98		73.9	FLOOD
13.002	TWC7	1	119.259	1.361	0.000	1.36		96.7	SURCHARGED
12.004	TWC8	1	118.090	0.848	0.000	2.18		210.2	SURCHARGED
12.005	TWC9	3	117.731	0.563	0.000	2.69		237.7	SURCHARGED
12.006	TWC10	8	117.348	0.228	0.000	1.54		248.5	SURCHARGED
1.017	TWC11	9	117.143	2.476	0.000	0.92		1348.6	SURCHARGED
1.018	19	9	117.134	2.541	0.000	0.65		1339.9	SURCHARGED
14.000	TWC12	6	117.333	-0.076	0.000	0.75		27.8	OK
14.001	TWC13	9	117.131	-0.121	0.000	0.42		53.7	OK
14.002	TWC14	9	117.122	0.843	0.000	1.37		108.5	SURCHARGED
1.019	TWC15	9	117.124	2.796	0.000	1.06		1329.8	SURCHARGED
15.000	65	1	118.601	1.232	4.969	1.16		79.5	FLOOD
16.000	136	1	118.786	0.572	0.000	0.56		33.3	SURCHARGED
16.001	137	1	118.727	0.820	0.000	0.61		34.2	FLOOD RISK

M-EC		Page 327
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 100 year Winter I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
16.002	138	1	118.665	0.946	0.000	0.46	59.3	FLOOD RISK
15.001	66	2	118.527	1.341	0.000	1.35	159.9	SURCHARGED
15.002	67	2	118.352	1.308	0.000	1.52	172.7	SURCHARGED
17.000	9	1	118.339	0.755	0.000	0.10	8.5	FLOOD RISK
17.001	75	2	118.331	0.934	1.802	0.79	60.2	FLOOD
17.002	76	2	118.317	1.097	0.000	0.24	95.4	SURCHARGED
15.003	68	2	118.199	1.254	0.000	1.09	262.5	SURCHARGED
15.004	69	2	118.091	1.274	0.000	1.05	331.3	SURCHARGED
15.005	70	2	118.029	1.301	0.000	1.14	320.1	SURCHARGED
15.006	71	2	117.977	1.303	0.000	1.22	377.6	SURCHARGED
18.000	147	2	117.997	1.026	0.000	0.49	19.0	FLOOD RISK
18.001	112	2	117.972	1.125	1.737	0.75	39.4	FLOOD
18.002	113	2	117.972	1.169	0.000	0.34	42.0	FLOOD RISK
19.000	115	2	118.027	0.533	0.000	0.31	14.8	SURCHARGED
19.001	116	2	118.007	0.777	0.000	0.53	41.1	SURCHARGED
18.003	77	2	117.968	1.218	0.000	0.55	68.8	SURCHARGED
20.000	134	2	118.034	0.602	0.000	0.56	47.2	SURCHARGED
18.004	135	3	117.951	1.251	0.000	0.78	130.8	SURCHARGED
18.005	78	3	117.927	1.282	0.000	0.81	141.8	SURCHARGED
15.007	72	3	117.907	1.309	0.000	1.78	508.9	SURCHARGED
15.008	73	4	117.697	1.243	0.000	2.45	522.5	SURCHARGED
15.009	74	4	117.536	1.125	0.000	3.17	515.4	SURCHARGED
15.010	98	7	117.383	0.998	0.000	1.86	499.2	SURCHARGED
15.011	99	8	117.237	0.954	0.000	1.58	447.7	SURCHARGED
15.012	101	9	117.146	1.047	0.000	1.51	417.4	SURCHARGED
21.000	142	3	117.767	0.478	0.000	1.11	51.1	SURCHARGED
21.001	143	9	117.250	0.383	0.000	1.20	71.1	SURCHARGED
22.000	118	1	118.077	0.771	0.000	0.21	7.0	SURCHARGED
22.001	119	1	118.077	0.857	0.000	0.71	22.3	SURCHARGED
22.002	120	1	118.051	0.890	0.000	0.89	55.7	FLOOD RISK
23.000	129	3	117.740	0.863	0.000	0.46	37.3	SURCHARGED
23.001	130	5	117.642	0.900	0.000	0.44	44.3	SURCHARGED
22.003	121	7	117.511	1.018	0.000	2.01	130.8	SURCHARGED
24.000	131	1	118.469	1.390	0.000	1.55	64.7	SURCHARGED
24.001	132	3	117.805	1.022	0.000	3.04	82.6	SURCHARGED
24.002	133	8	117.410	0.669	0.000	0.75	95.5	SURCHARGED
22.004	122	9	117.226	0.802	0.000	1.33	241.8	SURCHARGED
22.005	123	11	117.096	0.768	0.000	1.81	274.0	SURCHARGED
25.000	139	1	118.432	1.546	0.000	1.72	46.8	SURCHARGED
25.001	140	1	118.170	1.396	0.000	1.60	98.6	SURCHARGED
22.006	124	10	117.099	0.837	0.000	2.59	388.8	SURCHARGED
22.007	125	9	117.102	0.896	0.000	1.42	388.0	SURCHARGED
22.008	126	9	117.105	0.946	0.000	0.75	408.1	SURCHARGED
22.009	127	9	117.107	1.044	0.000	1.65	405.9	SURCHARGED
21.002	149	9	117.110	1.095	0.000	0.56	442.3	SURCHARGED
1.020	20	9	117.114	3.560	0.000	7.16	474.6	SURCHARGED
1.021	108	7	116.331	2.786	0.000	1.85	465.0	SURCHARGED
1.022	21	7	116.081	2.672	0.000	1.70	434.2	SURCHARGED
1.023	22	7	115.739	2.518	0.000	1.71	418.4	SURCHARGED

M-EC		Page 328
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	1	119.436	-0.502	0.000	0.15		105.2	OK
26.001	90	1	119.117	-0.490	0.000	0.16		124.5	OK
27.000	200	1	119.646	-0.170	0.000	0.39		60.8	OK
27.001	109	1	119.011	-0.268	0.000	0.47		68.0	OK
26.002	91	1	118.815	-0.433	0.000	0.35		193.8	OK
28.000	TWD27	1	119.551	-0.066	0.000	0.95		123.5	OK
26.003	91A	1	118.751	-0.411	0.000	0.44		338.4	OK
26.004	92	1	118.698	-0.366	0.000	0.59		383.8	OK
26.005	93	1	118.620	-0.383	0.000	0.49		375.0	OK
29.000	TWD29	1	119.822	0.257	0.000	1.54		55.4	SURCHARGED
29.001	TWD30	1	119.566	0.108	0.000	1.41		90.8	SURCHARGED
29.002	TWD31	1	119.236	-0.112	0.000	0.70		121.2	OK
26.006	94	1	118.540	-0.326	0.000	0.65		492.9	OK
26.007	95	1	118.463	-0.292	0.000	0.65		502.7	OK
30.000	201	1	120.213	0.772	0.000	0.91		76.6	SURCHARGED
30.001	202	1	120.002	0.812	0.000	1.37		102.4	SURCHARGED
30.002	203	1	119.836	0.735	0.000	2.29		172.6	SURCHARGED
30.003	204	1	119.199	0.216	0.000	0.97		203.3	SURCHARGED
30.004	117	1	118.901	0.230	0.000	2.07		215.7	SURCHARGED
26.008	95A	1	118.411	-0.200	0.000	0.92		733.3	OK
26.009	96	1	118.159	-0.274	0.000	0.76		713.9	OK
26.010	97	1	117.693	-0.345	0.000	0.63		701.2	OK
31.000	121	3	117.620	0.000	0.000	1.44		521.1	OK
32.000	TWD4	1	120.933	0.672	0.000	0.55		27.1	SURCHARGED
32.001	TWD5	1	120.864	0.815	0.000	0.93		55.4	SURCHARGED
33.000	TWD16	1	120.795	1.084	0.000	1.46		95.0	FLOOD RISK
32.002	TWD6	1	120.544	0.956	0.000	1.41		151.5	SURCHARGED
34.000	TWD17	1	120.364	0.657	0.000	0.76		39.7	SURCHARGED
35.000	TWD18	1	120.322	0.684	0.000	0.66		27.2	SURCHARGED
32.003	TWD7	1	120.246	0.806	0.000	1.32		219.3	SURCHARGED
32.004	TWD8	1	119.434	0.451	0.000	1.27		260.3	SURCHARGED
32.005	TWD9	1	119.215	0.364	0.000	1.64		277.1	SURCHARGED
32.006	TWD10	1	118.966	0.165	0.000	1.65		279.3	SURCHARGED
36.000	TWD19	1	120.915	1.194	0.000	1.48		101.7	FLOOD RISK
32.007	TWD11	1	118.219	0.498	0.000	2.57		387.2	SURCHARGED
37.000	TWD20	1	119.958	0.472	0.000	1.07		40.7	SURCHARGED
37.001	TWD21	1	119.707	0.436	0.000	1.13		76.6	SURCHARGED
37.002	TWD22	1	119.427	0.361	0.000	1.55		104.6	SURCHARGED
37.003	TWD23	1	118.888	0.028	0.000	1.25		132.7	SURCHARGED
37.004	TWD24	1	118.652	-0.134	0.000	0.72		152.2	OK
37.005	TWD25	1	118.359	0.061	0.000	0.69		156.9	SURCHARGED
32.008	TWD12	1	118.081	0.381	0.000	1.58		554.5	SURCHARGED
38.000	TWD26	1	119.350	-0.100	0.000	0.59		59.0	OK
32.009	TWD13	1	117.871	0.256	0.000	1.38		602.4	SURCHARGED
32.010	TWD14	1	117.741	0.194	0.000	1.49		611.8	SURCHARGED
32.011	TWD15	1	117.586	0.091	0.000	2.00		627.7	SURCHARGED
26.011	98	1	117.369	-0.219	0.000	0.69		1511.2	OK
26.012	99	1	117.104	0.084	0.000	0.91		1500.3	SURCHARGED
26.013	100	1	116.865	0.136	0.000	1.92		1499.3	SURCHARGED



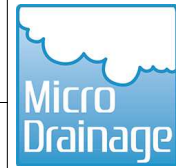
M-EC		Page 329
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 15 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	6	115.570	2.438	0.000	2.61		675.9	SURCHARGED
1.025	24	5	114.202	1.276	0.000	2.65		676.3	SURCHARGED
1.026	25	3	113.285	0.496	0.000	1.06		676.9	SURCHARGED
39.000	79	1	121.728	-0.445	0.000	0.06		25.4	OK
39.001	80	1	121.371	-0.388	0.000	0.15		73.4	OK
39.002	81	1	120.835	-0.492	0.000	0.16		91.1	OK
40.000	130	1	121.102	-0.099	0.000	0.60		20.2	OK
41.000	BAR1	1	122.218	0.413	0.000	1.27		36.6	SURCHARGED
41.001	131	1	121.039	-0.135	0.000	0.71		67.7	OK
39.003	81A	1	120.720	-0.414	0.000	0.31		189.0	OK
42.000	133	1	120.736	-0.210	0.000	0.20		11.1	OK
39.004	82	1	120.586	-0.319	0.000	0.44		234.5	OK
39.005	83	1	120.564	-0.271	0.000	0.36		228.8	OK
43.000	BAR2	1	122.539	0.910	0.000	1.40		43.7	FLOOD RISK
43.001	136	1	120.631	-0.061	0.000	0.99		73.0	OK
39.006	83A	1	120.505	-0.165	0.000	0.49		294.7	OK
44.000	206	1	121.289	0.432	0.000	0.44		46.2	SURCHARGED
44.001	207	1	121.272	0.453	0.000	0.49		56.9	SURCHARGED
44.002	208	1	121.251	0.475	0.000	0.68		92.4	SURCHARGED
44.003	209	1	121.209	0.505	0.000	1.01		93.0	SURCHARGED
45.000	210	1	121.458	0.373	0.000	0.64		29.0	SURCHARGED
45.001	211	1	121.372	0.430	0.000	0.69		45.3	SURCHARGED
45.002	212	1	121.277	0.521	0.000	0.61		65.3	SURCHARGED
44.004	213	1	121.188	0.506	0.000	1.96		203.2	SURCHARGED
44.005	214	1	121.052	0.406	0.000	1.57		210.5	SURCHARGED
44.006	215	1	120.887	0.306	0.000	2.57		243.1	SURCHARGED
44.007	138	1	120.692	0.135	0.000	1.90		243.0	SURCHARGED
39.007	84	1	120.444	-0.081	0.000	0.91		544.3	OK
46.000	BAR4	1	122.912	1.203	2.960	1.60		60.0	FLOOD
46.001	BAR5	1	122.674	1.186	0.000	2.03		72.7	FLOOD RISK
47.000	BAR6	1	123.351	1.200	0.155	1.41		24.0	FLOOD
47.001	BAR7	1	122.951	1.080	0.000	1.32		48.3	FLOOD RISK
47.002	BAR8	1	122.712	0.985	0.000	1.16		68.1	FLOOD RISK
46.002	BAR9	1	122.266	0.887	0.000	2.48		153.0	SURCHARGED
46.003	BAR10	1	121.792	0.491	0.000	1.21		197.5	SURCHARGED
46.004	140	1	120.571	0.076	0.000	1.65		198.5	SURCHARGED
39.008	85	1	120.398	-0.070	0.000	0.92		711.4	OK
39.009	86	1	120.311	-0.023	0.000	0.90		724.0	OK
48.000	BAR3	1	120.999	0.051	0.000	1.03		34.1	SURCHARGED
48.001	143	1	120.178	0.004	0.000	0.66		74.6	SURCHARGED
49.000	216	1	120.546	-0.124	0.000	0.64		110.4	OK
49.001	144	1	120.197	0.002	0.000	0.87		116.4	SURCHARGED
39.010	87	1	120.169	0.017	0.000	0.89		848.7	SURCHARGED
39.011	88	1	120.110	0.103	0.000	1.00		955.4	SURCHARGED
39.012	103	1	119.928	0.077	0.000	1.06		1013.9	SURCHARGED
50.000	BAR11	1	122.647	1.202	1.964	1.72		29.7	FLOOD
50.001	BAR12	1	122.338	1.200	0.350	1.13		57.7	FLOOD
51.000	BAR13	1	122.131	1.163	0.000	0.40		12.6	FLOOD RISK
50.002	BAR14	1	122.117	1.198	0.000	1.51		81.4	FLOOD RISK

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1

Summary Wizard of 15 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	1	122.103	1.152	0.000	1.60		26.8	FLOOD RISK
52.001	BAR16	1	121.542	0.816	0.000	1.06		46.3	SURCHARGED
50.003	BAR17	1	121.419	0.801	0.000	2.24		137.6	SURCHARGED
50.004	BAR18	1	121.036	0.495	0.000	2.42		152.9	SURCHARGED
50.005	BAR19	1	120.487	0.038	0.000	0.98		171.6	SURCHARGED
50.006	149	1	119.823	0.098	0.000	1.00		168.9	SURCHARGED
53.000	TWD1	1	120.521	-0.093	0.000	0.61		23.7	OK
54.000	TWD3	1	120.722	-0.160	0.000	0.18		15.6	OK
53.001	TWD2	1	120.185	-0.061	0.000	0.85		76.4	OK
39.013	104	1	119.718	0.048	0.000	1.84		1229.6	SURCHARGED
39.014	104A	2	119.635	0.000	0.000	1.06		1195.7	OK
55.000	BAR20	1	122.695	1.202	2.077	1.82		31.8	FLOOD
55.001	BAR21	1	121.717	0.664	0.000	1.08		58.5	SURCHARGED
56.000	BAR22	1	121.702	1.097	0.000	1.75		63.7	FLOOD RISK
56.001	BAR23	1	121.274	0.805	0.000	2.42		79.3	SURCHARGED
55.002	BAR24	1	120.944	0.530	0.000	1.72		140.6	SURCHARGED
55.003	BAR25	1	120.283	0.089	0.000	1.52		162.7	SURCHARGED
55.004	BAR26	1	119.960	-0.156	0.000	0.63		196.8	OK
39.015	105	1	119.280	-0.194	0.000	0.96		1309.4	OK
39.016	106	1	119.068	-1.079	0.000	0.17		1228.7	OK
39.017	107	2	116.360	-0.187	0.000	0.63		1187.2	FLOOD RISK*
1.027	26	2	112.559	-0.349	0.000	0.48		1808.0	OK
1.028	27	2	109.694	-0.053	0.000	0.87		1795.8	FLOOD RISK*
1.029	28	2	106.758	-0.433	0.000	0.38		1733.4	OK
1.030	29	2	97.822	-0.655	0.000	0.28		1687.2	OK
1.031	30	2	93.289	-0.093	0.000	0.79		1644.2	FLOOD RISK*
1.032	31	3	92.250	0.000	0.000	1.00		1562.7	FLOOD RISK*
1.033	32	10	91.700	-0.423	0.000	0.48		1497.9	OK
1.034	33	31	90.510	0.237	0.000	1.05		255.9	SURCHARGED*
57.000	108	1	91.886	0.000	0.000	1.20		1942.5	FLOOD RISK*
57.001	109	4	91.718	-0.168	0.000	0.73		1399.9	FLOOD RISK*
57.002	110	15	91.233	-0.653	0.000	0.38		933.3	OK
1.035	109	35	90.227	0.361	0.000	0.41		100.0	SURCHARGED*
1.036	34	26	86.650	0.000	0.000	0.68		56.5	SURCHARGED*

M-EC		Page 331
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0 Inlet Coefficient 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 4  
Number of Online Controls 1 Number of Time/Area Diagrams 0  
Number of Offline Controls 0 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON


Profile(s) Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	3	117.985	1.130	20.685	0.51	40.9	FLOOD
1.001	2	3	117.993	1.284	10.583	0.58	51.0	FLOOD
1.002	3	1	118.123	1.635	0.280	0.33	40.5	FLOOD
1.003	4	1	118.207	1.860	0.000	0.71	126.6	FLOOD RISK
2.000	5	2	119.561	0.886	0.000	0.47	53.8	SURCHARGED
2.001	6	2	119.434	0.973	0.000	1.15	119.1	SURCHARGED
2.002	6	2	119.294	1.081	0.000	0.95	128.7	SURCHARGED
2.003	8	1	118.937	1.589	0.000	0.65	154.7	SURCHARGED
3.000	9.1	3	119.404	0.979	4.488	1.06	55.6	FLOOD
3.001	9	3	118.409	1.264	42.931	0.59	47.9	FLOOD
3.002	10	3	118.416	1.433	46.113	0.60	64.4	FLOOD
3.003	11	2	118.566	1.684	0.000	0.78	137.7	FLOOD RISK
4.000	12	2	118.797	1.511	0.000	0.61	62.5	FLOOD RISK
3.004	13	1	118.627	1.867	0.000	0.53	166.4	FLOOD RISK
3.005	14	1	118.636	2.083	0.000	0.86	211.8	SURCHARGED
3.006	15	1	118.620	2.155	0.000	0.86	194.3	SURCHARGED
2.004	16	1	118.613	2.170	0.000	0.94	327.5	SURCHARGED
2.005	17	1	118.577	2.224	0.000	0.89	372.9	SURCHARGED
5.000	18	1	118.469	1.582	0.000	0.30	35.2	SURCHARGED
2.006	19	1	118.440	2.261	0.000	0.96	399.8	SURCHARGED
2.007	20	1	118.304	2.297	0.000	1.03	413.0	SURCHARGED
1.004	21	1	118.174	2.326	0.000	1.41	489.0	SURCHARGED

M-EC		Page 332
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		

Summary Wizard of 30 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	3	118.057	2.270	0.000	0.91		561.7	SURCHARGED
6.000	23	2	118.257	1.327	11.954	0.99		44.4	FLOOD
6.001	24	1	118.248	1.555	3.885	1.06		39.0	FLOOD
6.002	25	1	118.312	1.687	0.000	0.86		64.1	FLOOD RISK
6.003	26	1	118.333	2.018	0.000	1.37		84.0	SURCHARGED
6.004	27	1	118.281	2.025	0.000	0.95		119.7	SURCHARGED
6.005	28	1	118.179	2.196	0.000	0.42		98.3	SURCHARGED
1.006	29	3	118.010	2.380	0.000	0.80		667.9	SURCHARGED
7.000	30	1	118.351	0.091	0.000	0.92		36.1	SURCHARGED
7.001	31	1	118.277	0.182	0.000	0.68		80.1	SURCHARGED
1.007	8	3	117.831	2.490	0.000	0.97		726.7	SURCHARGED
8.000	60	3	117.718	0.862	0.000	0.62		23.7	SURCHARGED
8.001	61	3	117.688	1.004	0.000	0.26		27.2	SURCHARGED
8.002	35	3	117.675	1.247	0.000	0.15		36.9	SURCHARGED
1.008	10	3	117.670	2.591	0.000	2.23		738.9	SURCHARGED
9.000	62	3	120.171	0.871	0.000	0.99		82.4	SURCHARGED
10.000	40	2	120.195	1.227	27.301	3.00		184.3	FLOOD
9.001	63	1	119.912	0.933	0.000	1.68		281.7	SURCHARGED
9.002	64	1	119.181	0.663	0.000	0.78		360.2	SURCHARGED
9.003	148	3	117.873	2.607	0.000	1.27		325.1	SURCHARGED
1.009	11	3	117.659	2.599	0.000	1.45		1065.3	SURCHARGED
1.010	12	3	117.631	2.655	0.000	2.88		1078.0	SURCHARGED
1.011	13	3	117.610	2.656	0.000	2.47		1073.9	SURCHARGED
1.012	14	3	117.589	2.668	0.000	1.13		1073.5	SURCHARGED
1.013	15	3	117.576	2.706	0.000	2.34		1067.4	SURCHARGED
1.014	16	3	117.564	2.717	0.000	1.15		1057.3	SURCHARGED
11.000	TWC16	3	118.514	0.673	0.000	1.00		97.4	SURCHARGED
11.001	TWC17	3	117.555	1.895	0.000	0.76		94.9	SURCHARGED
1.015	17	3	117.553	2.683	0.000	0.77		1109.2	SURCHARGED
1.016	18	3	117.544	2.777	0.000	0.82		1093.9	SURCHARGED
12.000	TWC1	4	119.101	1.300	0.111	0.83		30.8	FLOOD
12.001	TWC2	4	118.997	1.361	0.000	1.14		43.5	FLOOD RISK
12.002	TWC3	4	118.691	1.321	0.000	2.41		82.9	SURCHARGED
12.003	TWC4	4	118.259	0.962	0.000	2.52		83.3	SURCHARGED
13.000	TWC5	3	119.599	1.309	9.511	1.58		59.9	FLOOD
13.001	TWC6	4	119.566	1.498	0.000	1.93		72.1	FLOOD RISK
13.002	TWC7	4	119.073	1.175	0.000	1.33		94.9	SURCHARGED
12.004	TWC8	5	117.917	0.675	0.000	2.05		198.2	SURCHARGED
12.005	TWC9	5	117.657	0.489	0.000	2.50		220.7	SURCHARGED
12.006	TWC10	3	117.635	0.515	0.000	1.42		229.5	SURCHARGED
1.017	TWC11	3	117.535	2.868	0.000	0.88		1278.7	SURCHARGED
1.018	19	3	117.525	2.932	0.000	0.62		1274.0	SURCHARGED
14.000	TWC12	3	117.515	0.106	0.000	0.60		22.1	SURCHARGED
14.001	TWC13	3	117.515	0.263	0.000	0.33		41.7	SURCHARGED
14.002	TWC14	3	117.516	1.237	0.000	1.06		84.0	SURCHARGED
1.019	TWC15	3	117.516	3.188	0.000	1.03		1296.0	SURCHARGED
15.000	65	2	118.598	1.229	1.724	1.02		69.8	FLOOD
16.000	136	2	118.669	0.455	0.000	0.47		28.1	SURCHARGED
16.001	137	2	118.633	0.726	0.000	0.48		27.3	FLOOD RISK

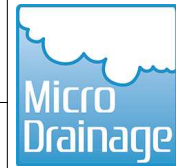
M-EC		Page 333
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	2	118.606	0.887	0.000	0.39		50.5	FLOOD RISK
15.001	66	1	118.530	1.344	0.000	1.14		134.6	SURCHARGED
15.002	67	1	118.417	1.373	0.000	1.31		148.9	SURCHARGED
17.000	9	2	118.338	0.754	0.000	0.08		6.9	FLOOD RISK
17.001	75	1	118.332	0.935	3.006	0.61		47.0	FLOOD
17.002	76	1	118.319	1.099	0.000	0.19		75.7	SURCHARGED
15.003	68	1	118.310	1.365	0.000	0.94		226.9	SURCHARGED
15.004	69	1	118.220	1.403	0.000	0.89		282.2	SURCHARGED
15.005	70	1	118.173	1.445	0.000	0.98		275.6	SURCHARGED
15.006	71	1	118.131	1.457	0.000	1.06		328.7	SURCHARGED
18.000	147	1	117.999	1.028	0.000	0.36		14.0	FLOOD RISK
18.001	112	1	117.983	1.136	12.791	0.70		36.7	FLOOD
18.002	113	1	118.057	1.254	0.000	0.31		37.9	FLOOD RISK
19.000	115	1	118.144	0.650	0.000	0.24		11.5	SURCHARGED
19.001	116	1	118.128	0.898	0.000	0.41		31.6	SURCHARGED
18.003	77	1	118.093	1.343	0.000	0.47		58.9	SURCHARGED
20.000	134	1	118.153	0.721	0.000	0.45		38.3	SURCHARGED
18.004	135	1	118.102	1.402	0.000	0.65		109.7	SURCHARGED
18.005	78	1	118.091	1.446	0.000	0.71		122.8	SURCHARGED
15.007	72	1	118.074	1.476	0.000	1.59		452.8	SURCHARGED
15.008	73	1	117.868	1.414	0.000	2.21		472.4	SURCHARGED
15.009	74	3	117.732	1.321	0.000	2.85		463.4	SURCHARGED
15.010	98	3	117.651	1.266	0.000	1.67		449.0	SURCHARGED
15.011	99	3	117.592	1.309	0.000	1.50		424.3	SURCHARGED
15.012	101	3	117.542	1.443	0.000	1.48		409.6	SURCHARGED
21.000	142	7	117.565	0.276	0.000	0.94		43.3	SURCHARGED
21.001	143	5	117.553	0.686	0.000	1.02		60.8	SURCHARGED
22.000	118	8	117.667	0.361	0.000	0.10		3.3	SURCHARGED
22.001	119	8	117.663	0.443	0.000	0.50		15.7	SURCHARGED
22.002	120	8	117.638	0.477	0.000	0.79		49.5	SURCHARGED
23.000	129	6	117.621	0.744	0.000	0.38		31.0	SURCHARGED
23.001	130	6	117.616	0.874	0.000	0.36		36.2	SURCHARGED
22.003	121	5	117.611	1.117	0.000	1.74		112.9	SURCHARGED
24.000	131	6	117.901	0.822	0.000	1.31		54.8	SURCHARGED
24.001	132	7	117.630	0.847	0.000	2.58		70.1	SURCHARGED
24.002	133	5	117.615	0.874	0.000	0.63		80.4	SURCHARGED
22.004	122	5	117.603	1.179	0.000	1.13		205.8	SURCHARGED
22.005	123	5	117.578	1.249	0.000	1.55		234.7	SURCHARGED
25.000	139	6	117.810	0.924	0.000	1.40		38.0	SURCHARGED
25.001	140	7	117.644	0.870	0.000	1.37		84.0	SURCHARGED
22.006	124	5	117.568	1.306	0.000	2.19		328.2	SURCHARGED
22.007	125	5	117.551	1.345	0.000	1.18		322.1	SURCHARGED
22.008	126	5	117.545	1.386	0.000	0.62		338.8	SURCHARGED
22.009	127	5	117.540	1.477	0.000	1.33		327.9	SURCHARGED
21.002	149	5	117.536	1.521	0.000	0.47		370.6	SURCHARGED
1.020	20	3	117.506	3.952	0.000	5.64		374.1	SURCHARGED
1.021	108	3	116.614	3.069	0.000	1.49		374.7	SURCHARGED
1.022	21	2	116.329	2.920	0.000	1.47		375.1	SURCHARGED
1.023	22	2	115.936	2.715	0.000	1.54		375.7	SURCHARGED

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...


Designed by KA  
Checked by CP

Micro Drainage

Network 2016.1

Summary Wizard of 30 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	4	119.415	-0.523	0.000	0.12		83.1	OK
26.001	90	4	119.093	-0.514	0.000	0.13		98.6	OK
27.000	200	4	119.629	-0.187	0.000	0.30		47.5	OK
27.001	109	4	118.975	-0.304	0.000	0.37		53.4	OK
26.002	91	4	118.764	-0.484	0.000	0.27		152.0	OK
28.000	TWD27	4	119.511	-0.106	0.000	0.75		96.8	OK
26.003	91A	4	118.691	-0.471	0.000	0.35		265.9	OK
26.004	92	4	118.636	-0.428	0.000	0.46		301.2	OK
26.005	93	4	118.553	-0.450	0.000	0.39		301.4	OK
29.000	TWD29	4	119.636	0.071	0.000	1.21		43.6	SURCHARGED
29.001	TWD30	4	119.474	0.016	0.000	1.11		71.7	SURCHARGED
29.002	TWD31	4	119.208	-0.140	0.000	0.55		95.4	OK
26.006	94	4	118.468	-0.398	0.000	0.52		396.5	OK
26.007	95	4	118.388	-0.367	0.000	0.53		406.2	OK
30.000	201	4	119.711	0.270	0.000	0.74		62.4	SURCHARGED
30.001	202	4	119.572	0.382	0.000	1.13		84.2	SURCHARGED
30.002	203	4	119.460	0.359	0.000	1.92		144.6	SURCHARGED
30.003	204	4	119.014	0.031	0.000	0.81		169.9	SURCHARGED
30.004	117	4	118.806	0.135	0.000	1.73		180.4	SURCHARGED
26.008	95A	4	118.333	-0.278	0.000	0.77		613.6	OK
26.009	96	4	118.093	-0.340	0.000	0.64		604.1	OK
26.010	97	4	117.646	-0.392	0.000	0.54		598.0	OK
31.000	121	2	117.620	0.000	0.000	1.13		407.9	OK
32.000	TWD4	4	120.466	0.205	0.000	0.52		25.3	SURCHARGED
32.001	TWD5	4	120.415	0.366	0.000	0.85		50.8	SURCHARGED
33.000	TWD16	4	120.333	0.622	0.000	1.26		81.8	SURCHARGED
32.002	TWD6	4	120.152	0.564	0.000	1.24		132.8	SURCHARGED
34.000	TWD17	4	120.014	0.307	0.000	0.62		32.1	SURCHARGED
35.000	TWD18	4	119.980	0.342	0.000	0.54		22.3	SURCHARGED
32.003	TWD7	4	119.924	0.484	0.000	1.17		193.7	SURCHARGED
32.004	TWD8	4	119.293	0.310	0.000	1.14		234.0	SURCHARGED
32.005	TWD9	3	119.118	0.267	0.000	1.47		248.6	SURCHARGED
32.006	TWD10	3	118.920	0.119	0.000	1.49		251.4	SURCHARGED
36.000	TWD19	4	120.302	0.581	0.000	1.26		86.5	SURCHARGED
32.007	TWD11	4	117.981	0.260	0.000	2.29		345.3	SURCHARGED
37.000	TWD20	4	119.573	0.087	0.000	0.88		33.4	SURCHARGED
37.001	TWD21	4	119.407	0.136	0.000	0.95		64.1	SURCHARGED
37.002	TWD22	4	119.216	0.150	0.000	1.31		88.5	SURCHARGED
37.003	TWD23	4	118.861	0.001	0.000	1.02		108.5	SURCHARGED
37.004	TWD24	4	118.623	-0.163	0.000	0.60		127.0	OK
37.005	TWD25	4	118.144	-0.154	0.000	0.65		146.7	OK
32.008	TWD12	3	117.910	0.210	0.000	1.46		510.9	SURCHARGED
38.000	TWD26	4	119.332	-0.118	0.000	0.46		46.1	OK
32.009	TWD13	3	117.727	0.112	0.000	1.29		560.4	SURCHARGED
32.010	TWD14	2	117.613	0.066	0.000	1.40		576.2	SURCHARGED
32.011	TWD15	2	117.512	0.017	0.000	1.90		595.5	SURCHARGED
26.011	98	2	117.282	-0.306	0.000	0.66		1453.2	OK
26.012	99	2	117.045	0.025	0.000	0.85		1414.0	SURCHARGED
26.013	100	2	116.835	0.106	0.000	1.81		1411.5	SURCHARGED

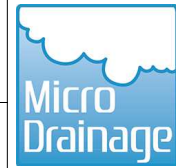
M-EC		Page 335
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 30 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	2	115.739	2.607	0.000	2.68		696.0	SURCHARGED
1.025	24	1	114.291	1.365	0.000	2.72		696.4	SURCHARGED
1.026	25	1	113.319	0.530	0.000	1.09		697.0	SURCHARGED
39.000	79	4	121.718	-0.455	0.000	0.04		19.9	OK
39.001	80	4	121.353	-0.406	0.000	0.12		55.6	OK
39.002	81	4	120.810	-0.517	0.000	0.12		69.0	OK
40.000	130	2	121.099	-0.102	0.000	0.58		19.5	OK
41.000	BAR1	4	121.886	0.081	0.000	1.06		30.7	SURCHARGED
41.001	131	4	121.005	-0.169	0.000	0.58		55.2	OK
39.003	81A	4	120.688	-0.446	0.000	0.25		152.7	OK
42.000	133	2	120.734	-0.212	0.000	0.19		10.7	OK
39.004	82	4	120.469	-0.436	0.000	0.36		191.2	OK
39.005	83	4	120.422	-0.413	0.000	0.29		187.3	OK
43.000	BAR2	4	122.059	0.430	0.000	1.20		37.5	SURCHARGED
43.001	136	4	120.582	-0.110	0.000	0.83		61.5	OK
39.006	83A	3	120.380	-0.290	0.000	0.42		257.3	OK
44.000	206	4	121.110	0.253	0.000	0.37		38.8	SURCHARGED
44.001	207	4	121.097	0.277	0.000	0.41		47.7	SURCHARGED
44.002	208	4	121.079	0.303	0.000	0.59		79.8	SURCHARGED
44.003	209	4	121.043	0.339	0.000	0.87		80.2	SURCHARGED
45.000	210	4	121.264	0.179	0.000	0.51		23.1	SURCHARGED
45.001	211	4	121.203	0.261	0.000	0.58		38.4	SURCHARGED
45.002	212	4	121.116	0.360	0.000	0.53		56.8	SURCHARGED
44.004	213	4	121.024	0.342	0.000	1.71		177.5	SURCHARGED
44.005	214	4	120.922	0.277	0.000	1.38		185.1	SURCHARGED
44.006	215	4	120.797	0.216	0.000	2.27		214.7	SURCHARGED
44.007	138	4	120.649	0.092	0.000	1.68		214.6	SURCHARGED
39.007	84	3	120.336	-0.189	0.000	0.84		501.8	OK
46.000	BAR4	4	122.728	1.019	0.000	1.32		49.6	FLOOD RISK
46.001	BAR5	4	122.339	0.851	0.000	1.92		68.7	SURCHARGED
47.000	BAR6	4	122.856	0.705	0.000	1.17		19.9	SURCHARGED
47.001	BAR7	4	122.493	0.622	0.000	1.17		42.9	SURCHARGED
47.002	BAR8	4	122.297	0.570	0.000	1.02		59.8	SURCHARGED
46.002	BAR9	4	121.936	0.557	0.000	2.31		142.5	SURCHARGED
46.003	BAR10	4	121.529	0.228	0.000	1.10		179.3	SURCHARGED
46.004	140	4	120.547	0.052	0.000	1.49		179.4	SURCHARGED
39.008	85	3	120.294	-0.174	0.000	0.87		672.3	OK
39.009	86	2	120.220	-0.114	0.000	0.85		686.2	OK
48.000	BAR3	4	120.903	-0.045	0.000	0.84		27.6	OK
48.001	143	2	120.112	-0.062	0.000	0.51		57.9	OK
49.000	216	4	120.520	-0.150	0.000	0.50		86.4	OK
49.001	144	2	120.129	-0.066	0.000	0.68		91.6	OK
39.010	87	2	120.093	-0.059	0.000	0.84		804.7	OK
39.011	88	2	120.006	-0.001	0.000	0.96		918.5	OK
39.012	103	2	119.890	0.039	0.000	1.02		976.2	SURCHARGED
50.000	BAR11	4	122.597	1.152	0.000	1.35		23.3	FLOOD RISK
50.001	BAR12	4	122.055	0.917	0.000	1.06		54.2	FLOOD RISK
51.000	BAR13	4	121.815	0.847	0.000	0.32		10.0	SURCHARGED
50.002	BAR14	4	121.805	0.886	0.000	1.42		76.1	SURCHARGED

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network



Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP


Micro Drainage

Network 2016.1

Summary Wizard of 30 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	4	121.740	0.789	0.000	1.38		23.2	SURCHARGED
52.001	BAR16	4	121.308	0.582	0.000	0.93		40.9	SURCHARGED
50.003	BAR17	4	121.205	0.587	0.000	2.03		125.0	SURCHARGED
50.004	BAR18	4	120.888	0.347	0.000	2.20		138.7	SURCHARGED
50.005	BAR19	4	120.371	-0.078	0.000	0.89		156.2	OK
50.006	149	2	119.811	0.086	0.000	0.92		156.1	SURCHARGED
53.000	TWD1	4	120.502	-0.112	0.000	0.49		18.9	OK
54.000	TWD3	4	120.713	-0.169	0.000	0.14		12.2	OK
53.001	TWD2	4	120.157	-0.089	0.000	0.67		60.2	OK
39.013	104	2	119.709	0.039	0.000	1.75		1171.4	SURCHARGED
39.014	104A	1	119.635	0.000	0.000	1.02		1153.0	OK
55.000	BAR20	4	122.677	1.184	0.000	1.69		29.6	FLOOD RISK
55.001	BAR21	4	121.401	0.348	0.000	0.99		53.8	SURCHARGED
56.000	BAR22	4	121.304	0.699	0.000	1.48		54.0	SURCHARGED
56.001	BAR23	4	121.005	0.536	0.000	2.09		68.6	SURCHARGED
55.002	BAR24	4	120.764	0.350	0.000	1.53		125.0	SURCHARGED
55.003	BAR25	4	120.245	0.051	0.000	1.37		146.1	SURCHARGED
55.004	BAR26	4	119.943	-0.173	0.000	0.56		175.0	OK
39.015	105	2	119.261	-0.213	0.000	0.94		1281.0	OK
39.016	106	2	119.059	-1.088	0.000	0.17		1233.6	OK
39.017	107	1	116.361	-0.186	0.000	0.64		1194.4	FLOOD RISK*
1.027	26	1	112.561	-0.347	0.000	0.49		1832.2	OK
1.028	27	1	109.699	-0.048	0.000	0.88		1825.6	FLOOD RISK*
1.029	28	1	106.763	-0.428	0.000	0.39		1784.5	OK
1.030	29	1	97.835	-0.642	0.000	0.29		1754.6	OK
1.031	30	1	93.325	-0.057	0.000	0.83		1719.7	FLOOD RISK*
1.032	31	1	92.251	0.001	1.169	1.08		1696.1	FLOOD
1.033	32	5	91.742	-0.381	0.000	0.52		1625.8	OK
1.034	33	29	90.580	0.307	0.000	1.01		246.2	SURCHARGED*
57.000	108	3	91.886	0.000	0.000	1.15		1859.6	FLOOD RISK*
57.001	109	3	91.728	-0.158	0.000	0.76		1467.4	FLOOD RISK*
57.002	110	10	91.320	-0.566	0.000	0.44		1088.4	OK
1.035	109	29	90.315	0.449	0.000	0.39		94.1	SURCHARGED*
1.036	34	25	86.650	0.000	0.000	0.69		57.1	SURCHARGED*



M-EC		Page 337
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 60 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0 Inlet Coefficient 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 4  
Number of Online Controls 1 Number of Time/Area Diagrams 0  
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 19.700 Cv (Winter) 0.850  
Margin for Flood Risk Warning (mm) 300.0 DVD Status ON  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON


Profile(s) Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow			
1.000	1	1	118.004	1.149	40.329	0.55	43.4	FLOOD		
1.001	2	1	118.017	1.308	34.466	0.50	43.4	FLOOD		
1.002	3	3	118.081	1.593	0.000	0.35	43.2	FLOOD RISK		
1.003	4	3	118.129	1.782	0.000	0.45	79.3	FLOOD RISK		
2.000	5	5	119.196	0.521	0.000	0.33	37.5	SURCHARGED		
2.001	6	5	119.122	0.661	0.000	0.75	77.4	SURCHARGED		
2.002	6	4	118.988	0.775	0.000	0.63	85.9	SURCHARGED		
2.003	8	3	118.757	1.409	0.000	0.40	95.1	SURCHARGED		
3.000	9.1	6	119.366	0.941	0.000	0.86	44.9	FLOOD RISK		
3.001	9	2	118.424	1.279	57.684	0.45	36.4	FLOOD		
3.002	10	1	118.440	1.457	69.899	0.39	42.2	FLOOD		
3.003	11	4	118.501	1.619	0.000	0.49	85.8	FLOOD RISK		
4.000	12	5	118.562	1.276	0.000	0.38	39.0	SURCHARGED		
3.004	13	4	118.537	1.777	0.000	0.37	117.5	SURCHARGED		
3.005	14	3	118.555	2.002	0.000	0.70	171.9	SURCHARGED		
3.006	15	2	118.557	2.092	0.000	0.77	173.1	SURCHARGED		
2.004	16	2	118.558	2.115	0.000	0.73	253.5	SURCHARGED		
2.005	17	2	118.551	2.198	0.000	0.70	294.5	SURCHARGED		
5.000	18	2	118.425	1.538	0.000	0.17	19.8	SURCHARGED		
2.006	19	2	118.421	2.242	0.000	0.78	323.3	SURCHARGED		
2.007	20	2	118.280	2.273	0.000	0.85	338.8	SURCHARGED		
1.004	21	2	118.148	2.300	0.000	1.18	410.2	SURCHARGED		

M-EC		Page 338
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	1	118.142	2.355	0.000	0.77		476.3	SURCHARGED
6.000	23	1	118.258	1.328	13.355	0.64		28.9	FLOOD
6.001	24	2	118.247	1.554	3.396	0.63		23.3	FLOOD
6.002	25	2	118.284	1.659	0.000	0.55		40.7	FLOOD RISK
6.003	26	2	118.278	1.963	0.000	0.86		52.7	SURCHARGED
6.004	27	2	118.247	1.991	0.000	0.62		78.3	SURCHARGED
6.005	28	2	118.144	2.161	0.000	0.32		74.5	SURCHARGED
1.006	29	1	118.134	2.504	0.000	0.71		592.9	SURCHARGED
7.000	30	8	118.162	-0.098	0.000	0.60		23.6	OK
7.001	31	4	118.034	-0.061	0.000	0.45		53.5	OK
1.007	8	1	117.953	2.612	0.000	0.86		645.2	SURCHARGED
8.000	60	1	117.820	0.964	0.000	0.38		14.7	SURCHARGED
8.001	61	1	117.807	1.123	0.000	0.15		15.5	SURCHARGED
8.002	35	1	117.801	1.373	0.000	0.09		21.3	SURCHARGED
1.008	10	1	117.792	2.713	0.000	1.98		655.9	SURCHARGED
9.000	62	7	119.563	0.263	0.000	0.67		55.6	SURCHARGED
10.000	40	7	119.854	0.886	0.000	2.66		163.4	SURCHARGED
9.001	63	6	119.443	0.464	0.000	1.42		238.2	SURCHARGED
9.002	64	5	118.808	0.290	0.000	0.62		287.1	SURCHARGED
9.003	148	1	117.938	2.672	0.000	1.11		283.8	SURCHARGED
1.009	11	1	117.783	2.723	0.000	1.28		942.4	SURCHARGED
1.010	12	1	117.769	2.793	0.000	2.56		954.8	SURCHARGED
1.011	13	1	117.759	2.805	0.000	2.20		955.7	SURCHARGED
1.012	14	1	117.746	2.825	0.000	1.01		956.2	SURCHARGED
1.013	15	1	117.737	2.867	0.000	2.08		947.9	SURCHARGED
1.014	16	1	117.729	2.882	0.000	1.03		945.4	SURCHARGED
11.000	TWC16	6	117.935	0.094	0.000	0.73		71.5	SURCHARGED
11.001	TWC17	1	117.733	2.073	0.000	0.54		67.4	SURCHARGED
1.015	17	1	117.719	2.849	0.000	0.69		988.2	SURCHARGED
1.016	18	1	117.710	2.943	0.000	0.73		978.7	SURCHARGED
12.000	TWC1	6	118.257	0.456	0.000	0.60		22.1	SURCHARGED
12.001	TWC2	6	118.190	0.554	0.000	0.82		31.6	SURCHARGED
12.002	TWC3	6	118.010	0.640	0.000	1.81		62.4	SURCHARGED
12.003	TWC4	5	117.981	0.684	0.000	1.89		62.5	SURCHARGED
13.000	TWC5	6	119.208	0.918	0.000	0.98		37.2	SURCHARGED
13.001	TWC6	6	118.994	0.926	0.000	1.76		65.9	SURCHARGED
13.002	TWC7	6	118.458	0.560	0.000	1.16		83.0	SURCHARGED
12.004	TWC8	3	117.967	0.725	0.000	1.67		161.7	SURCHARGED
12.005	TWC9	1	117.883	0.715	0.000	2.00		177.1	SURCHARGED
12.006	TWC10	1	117.824	0.704	0.000	1.13		183.0	SURCHARGED
1.017	TWC11	1	117.701	3.034	0.000	0.78		1138.9	SURCHARGED
1.018	19	1	117.692	3.099	0.000	0.55		1131.6	SURCHARGED
14.000	TWC12	1	117.699	0.290	0.000	0.39		14.5	SURCHARGED
14.001	TWC13	1	117.694	0.442	0.000	0.22		27.3	SURCHARGED
14.002	TWC14	1	117.687	1.408	0.000	0.65		51.0	SURCHARGED
1.019	TWC15	1	117.682	3.354	0.000	0.93		1163.8	SURCHARGED
15.000	65	5	118.349	0.980	0.000	0.77		52.9	FLOOD RISK
16.000	136	5	118.314	0.100	0.000	0.31		18.7	SURCHARGED
16.001	137	5	118.295	0.388	0.000	0.35		19.8	SURCHARGED

M-EC		Page 339
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	5	118.279	0.560	0.000	0.28		35.6	SURCHARGED
15.001	66	5	118.257	1.071	0.000	0.88		103.9	SURCHARGED
15.002	67	4	118.155	1.111	0.000	0.98		110.7	SURCHARGED
17.000	9	4	118.142	0.558	0.000	0.06		4.8	SURCHARGED
17.001	75	4	118.139	0.742	0.000	0.41		31.3	FLOOD RISK
17.002	76	4	118.115	0.895	0.000	0.14		58.0	SURCHARGED
15.003	68	3	118.057	1.112	0.000	0.74		178.8	SURCHARGED
15.004	69	3	118.018	1.201	0.000	0.67		212.7	SURCHARGED
15.005	70	3	117.987	1.259	0.000	0.72		203.5	SURCHARGED
15.006	71	3	117.960	1.286	0.000	0.78		243.3	SURCHARGED
18.000	147	3	117.983	1.012	0.000	0.27		10.5	FLOOD RISK
18.001	112	3	117.971	1.124	0.905	0.46		24.2	FLOOD
18.002	113	3	117.970	1.167	0.000	0.23		28.0	FLOOD RISK
19.000	115	3	117.997	0.503	0.000	0.16		7.7	SURCHARGED
19.001	116	3	117.988	0.758	0.000	0.27		20.8	SURCHARGED
18.003	77	3	117.967	1.217	0.000	0.39		48.6	SURCHARGED
20.000	134	3	117.987	0.555	0.000	0.30		25.5	SURCHARGED
18.004	135	2	117.958	1.258	0.000	0.48		81.3	SURCHARGED
18.005	78	2	117.942	1.297	0.000	0.53		92.2	SURCHARGED
15.007	72	2	117.926	1.328	0.000	1.20		343.5	SURCHARGED
15.008	73	2	117.847	1.393	0.000	1.65		352.3	SURCHARGED
15.009	74	1	117.802	1.391	0.000	2.16		350.7	SURCHARGED
15.010	98	1	117.772	1.387	0.000	1.27		342.0	SURCHARGED
15.011	99	1	117.738	1.455	0.000	1.18		333.7	SURCHARGED
15.012	101	1	117.702	1.603	0.000	1.19		329.8	SURCHARGED
21.000	142	1	117.886	0.597	0.000	0.64		29.5	SURCHARGED
21.001	143	1	117.869	1.002	0.000	0.72		42.9	SURCHARGED
22.000	118	2	118.023	0.717	0.000	0.06		1.9	SURCHARGED
22.001	119	2	118.022	0.802	0.000	0.41		12.9	SURCHARGED
22.002	120	2	118.019	0.858	0.000	0.63		39.0	SURCHARGED
23.000	129	1	118.008	1.131	0.000	0.25		20.4	SURCHARGED
23.001	130	1	118.004	1.262	0.000	0.23		23.6	SURCHARGED
22.003	121	1	117.999	1.505	0.000	1.17		76.2	SURCHARGED
24.000	131	3	118.034	0.956	0.000	0.86		35.8	SURCHARGED
24.001	132	1	118.015	1.233	0.000	1.69		46.0	SURCHARGED
24.002	133	1	118.002	1.262	0.000	0.42		52.9	SURCHARGED
22.004	122	1	117.992	1.567	0.000	0.74		134.7	SURCHARGED
22.005	123	1	117.932	1.604	0.000	1.02		155.1	SURCHARGED
25.000	139	3	117.936	1.049	0.000	0.91		24.8	SURCHARGED
25.001	140	3	117.925	1.151	0.000	0.90		55.2	SURCHARGED
22.006	124	1	117.900	1.638	0.000	1.45		218.0	SURCHARGED
22.007	125	1	117.862	1.655	0.000	0.79		215.0	SURCHARGED
22.008	126	1	117.855	1.695	0.000	0.42		226.7	SURCHARGED
22.009	127	1	117.849	1.786	0.000	0.90		220.7	SURCHARGED
21.002	149	1	117.844	1.829	0.000	0.32		251.6	SURCHARGED
1.020	20	1	117.672	4.118	0.000	7.39		489.6	SURCHARGED
1.021	108	1	116.712	3.167	0.000	1.93		483.2	SURCHARGED
1.022	21	1	116.406	2.997	0.000	1.86		474.7	SURCHARGED
1.023	22	1	115.982	2.761	0.000	1.93		473.0	SURCHARGED

M-EC		Page 340
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
26.000	89	8	119.386	-0.552	0.000	0.08		54.3	OK
26.001	90	8	119.064	-0.543	0.000	0.08		64.4	OK
27.000	200	8	119.607	-0.209	0.000	0.20		31.1	OK
27.001	109	8	118.930	-0.349	0.000	0.24		34.9	OK
26.002	91	8	118.711	-0.537	0.000	0.18		99.5	OK
28.000	TWD27	8	119.466	-0.151	0.000	0.49		63.4	OK
26.003	91A	8	118.612	-0.550	0.000	0.23		175.0	OK
26.004	92	8	118.553	-0.511	0.000	0.31		199.6	OK
26.005	93	8	118.469	-0.534	0.000	0.26		199.7	OK
29.000	TWD29	8	119.495	-0.070	0.000	0.80		28.9	OK
29.001	TWD30	8	119.354	-0.104	0.000	0.75		47.9	OK
29.002	TWD31	8	119.175	-0.173	0.000	0.37		64.2	OK
26.006	94	8	118.375	-0.491	0.000	0.35		266.0	OK
26.007	95	8	118.275	-0.480	0.000	0.35		272.6	OK
30.000	201	8	119.336	-0.105	0.000	0.50		42.1	OK
30.001	202	8	119.272	0.082	0.000	0.76		56.9	SURCHARGED
30.002	203	8	119.172	0.071	0.000	1.31		98.4	SURCHARGED
30.003	204	8	118.808	-0.175	0.000	0.55		115.7	OK
30.004	117	8	118.691	0.020	0.000	1.18		123.0	SURCHARGED
26.008	95A	8	118.211	-0.400	0.000	0.52		414.5	OK
26.009	96	8	117.992	-0.441	0.000	0.44		415.8	OK
26.010	97	7	117.561	-0.477	0.000	0.37		411.5	OK
31.000	121	8	117.331	-0.289	0.000	0.74		269.0	OK
32.000	TWD4	8	120.127	-0.134	0.000	0.34		16.9	OK
32.001	TWD5	9	119.954	-0.095	0.000	0.62		37.1	OK
33.000	TWD16	8	119.652	-0.059	0.000	0.94		61.2	OK
32.002	TWD6	8	119.549	-0.039	0.000	0.97		103.9	OK
34.000	TWD17	8	119.587	-0.120	0.000	0.44		23.1	OK
35.000	TWD18	8	119.511	-0.127	0.000	0.39		16.2	OK
32.003	TWD7	6	119.420	-0.020	0.000	0.88		145.1	OK
32.004	TWD8	6	119.070	0.087	0.000	0.87		177.2	SURCHARGED
32.005	TWD9	6	118.947	0.096	0.000	1.12		188.7	SURCHARGED
32.006	TWD10	6	118.833	0.032	0.000	1.13		190.8	SURCHARGED
36.000	TWD19	8	119.663	-0.058	0.000	0.89		61.1	OK
32.007	TWD11	6	117.763	0.042	0.000	1.69		255.7	SURCHARGED
37.000	TWD20	8	119.390	-0.096	0.000	0.62		23.3	OK
37.001	TWD21	8	119.157	-0.114	0.000	0.69		46.7	OK
37.002	TWD22	8	119.002	-0.064	0.000	0.97		65.7	OK
37.003	TWD23	7	118.742	-0.118	0.000	0.80		84.9	OK
37.004	TWD24	7	118.593	-0.193	0.000	0.47		98.9	OK
37.005	TWD25	7	118.110	-0.188	0.000	0.49		111.9	OK
32.008	TWD12	6	117.726	0.026	0.000	1.11		387.9	SURCHARGED
38.000	TWD26	8	119.310	-0.140	0.000	0.30		30.3	OK
32.009	TWD13	6	117.620	0.005	0.000	0.98		427.2	SURCHARGED
32.010	TWD14	6	117.554	0.007	0.000	1.07		440.9	SURCHARGED
32.011	TWD15	6	117.495	0.000	0.000	1.46		459.0	OK
26.011	98	6	117.071	-0.517	0.000	0.51		1116.0	OK
26.012	99	6	116.833	-0.187	0.000	0.67		1113.4	OK
26.013	100	6	116.750	0.021	0.000	1.43		1114.3	SURCHARGED

M-EC		Page 341
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 60 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	1	115.767	2.635	0.000	2.71	702.5	SURCHARGED
1.025	24	2	114.278	1.352	0.000	2.75	702.6	SURCHARGED
1.026	25	2	113.291	0.502	0.000	1.10	702.8	SURCHARGED
39.000	79	8	121.706	-0.467	0.000	0.03	13.0	OK
39.001	80	9	121.330	-0.429	0.000	0.08	36.5	OK
39.002	81	9	120.780	-0.547	0.000	0.08	45.0	OK
40.000	130	6	121.078	-0.123	0.000	0.43	14.4	OK
41.000	BAR1	8	121.750	-0.055	0.000	0.72	20.7	OK
41.001	131	9	120.962	-0.212	0.000	0.39	37.2	OK
39.003	81A	8	120.645	-0.489	0.000	0.17	102.5	OK
42.000	133	6	120.720	-0.226	0.000	0.14	7.9	OK
39.004	82	8	120.406	-0.499	0.000	0.24	129.7	OK
39.005	83	7	120.336	-0.499	0.000	0.20	129.5	OK
43.000	BAR2	8	121.587	-0.042	0.000	0.86	26.9	OK
43.001	136	9	120.526	-0.166	0.000	0.59	43.6	OK
39.006	83A	6	120.252	-0.418	0.000	0.30	182.1	OK
44.000	206	7	120.857	0.000	0.000	0.27	28.1	OK
44.001	207	9	120.819	0.000	0.000	0.30	35.4	OK
44.002	208	6	120.791	0.015	0.000	0.45	60.6	SURCHARGED
44.003	209	6	120.744	0.039	0.000	0.65	60.1	SURCHARGED
45.000	210	8	120.954	-0.131	0.000	0.36	16.3	OK
45.001	211	6	120.875	-0.067	0.000	0.43	28.4	OK
45.002	212	6	120.822	0.066	0.000	0.39	42.0	SURCHARGED
44.004	213	6	120.729	0.047	0.000	1.28	133.3	SURCHARGED
44.005	214	6	120.682	0.036	0.000	1.03	138.4	SURCHARGED
44.006	215	6	120.611	0.030	0.000	1.70	161.1	SURCHARGED
44.007	138	6	120.557	0.000	0.000	1.26	161.2	OK
39.007	84	6	120.191	-0.334	0.000	0.63	374.8	OK
46.000	BAR4	7	121.981	0.272	0.000	0.97	36.6	SURCHARGED
46.001	BAR5	7	121.766	0.278	0.000	1.44	51.5	SURCHARGED
47.000	BAR6	8	122.113	-0.038	0.000	0.90	15.4	OK
47.001	BAR7	8	121.885	0.014	0.000	0.93	34.0	SURCHARGED
47.002	BAR8	8	121.760	0.033	0.000	0.80	46.9	SURCHARGED
46.002	BAR9	7	121.533	0.154	0.000	1.77	108.9	SURCHARGED
46.003	BAR10	7	121.214	-0.087	0.000	0.84	137.8	OK
46.004	140	9	120.495	0.000	0.000	1.14	137.6	OK
39.008	85	6	120.138	-0.330	0.000	0.67	513.1	OK
39.009	86	6	120.037	-0.297	0.000	0.66	529.6	OK
48.000	BAR3	8	120.878	-0.070	0.000	0.55	18.1	OK
48.001	143	7	119.922	-0.252	0.000	0.34	38.2	OK
49.000	216	8	120.488	-0.182	0.000	0.33	56.6	OK
49.001	144	8	119.957	-0.238	0.000	0.45	59.9	OK
39.010	87	6	119.910	-0.242	0.000	0.64	610.3	OK
39.011	88	6	119.865	-0.142	0.000	0.73	697.4	OK
39.012	103	6	119.789	-0.062	0.000	0.79	755.6	OK
50.000	BAR11	7	121.670	0.225	0.000	1.00	17.3	SURCHARGED
50.001	BAR12	7	121.363	0.225	0.000	0.81	41.3	SURCHARGED
51.000	BAR13	7	121.226	0.258	0.000	0.22	7.0	SURCHARGED
50.002	BAR14	7	121.218	0.299	0.000	1.08	57.8	SURCHARGED

M-EC		Page 342
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		

Summary Wizard of 60 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	7	121.197	0.246	0.000	0.98		16.5	SURCHARGED
52.001	BAR16	7	120.973	0.247	0.000	0.67		29.6	SURCHARGED
50.003	BAR17	7	120.868	0.250	0.000	1.52		93.7	SURCHARGED
50.004	BAR18	7	120.689	0.148	0.000	1.65		103.9	SURCHARGED
50.005	BAR19	6	120.330	-0.119	0.000	0.67		116.8	OK
50.006	149	5	119.777	0.052	0.000	0.69		117.0	SURCHARGED
53.000	TWD1	8	120.478	-0.136	0.000	0.33		12.7	OK
54.000	TWD3	8	120.703	-0.179	0.000	0.09		8.0	OK
53.001	TWD2	8	120.126	-0.120	0.000	0.44		39.5	OK
39.013	104	6	119.670	0.000	0.000	1.36		907.8	OK
39.014	104A	6	119.316	-0.319	0.000	0.80		899.0	OK
55.000	BAR20	7	121.823	0.330	0.000	1.32		23.0	SURCHARGED
55.001	BAR21	8	120.981	-0.072	0.000	0.79		42.9	OK
56.000	BAR22	8	120.751	0.146	0.000	1.04		37.8	SURCHARGED
56.001	BAR23	8	120.603	0.134	0.000	1.48		48.5	SURCHARGED
55.002	BAR24	8	120.481	0.067	0.000	1.15		93.8	SURCHARGED
55.003	BAR25	6	120.194	0.000	0.000	1.01		107.5	OK
55.004	BAR26	7	119.909	-0.207	0.000	0.41		129.1	OK
39.015	105	6	119.137	-0.337	0.000	0.74		1007.8	OK
39.016	106	6	118.965	-1.182	0.000	0.13		982.4	OK
39.017	107	6	116.276	-0.271	0.000	0.52		974.9	FLOOD RISK*
1.027	26	6	112.510	-0.398	0.000	0.43		1626.0	OK
1.028	27	6	109.656	-0.091	0.000	0.78		1622.8	FLOOD RISK*
1.029	28	6	106.721	-0.470	0.000	0.35		1611.8	OK
1.030	29	6	97.793	-0.684	0.000	0.27		1600.7	OK
1.031	30	5	93.265	-0.117	0.000	0.77		1586.4	FLOOD RISK*
1.032	31	4	92.250	0.000	0.000	0.99		1561.1	FLOOD RISK*
1.033	32	7	91.714	-0.409	0.000	0.49		1539.9	OK
1.034	33	13	91.136	0.863	0.000	1.26		307.2	SURCHARGED*
57.000	108	6	91.790	-0.096	0.000	0.86		1388.8	FLOOD RISK*
57.001	109	9	91.598	-0.288	0.000	0.64		1226.9	FLOOD RISK*
57.002	110	12	91.283	-0.603	0.000	0.41		1015.1	OK
1.035	109	23	90.728	0.862	0.000	0.29		70.5	SURCHARGED*
1.036	34	21	86.650	0.000	0.000	0.72		60.1	SURCHARGED*

M-EC		Page 343
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	1	2	118.003	1.148	39.164	0.51	40.9	FLOOD	
1.001	2	2	118.011	1.302	28.103	0.47	40.9	FLOOD	
1.002	3	4	118.059	1.571	0.000	0.33	40.7	FLOOD RISK	
1.003	4	4	118.097	1.750	0.000	0.33	57.7	FLOOD RISK	
2.000	5	7	118.768	0.093	0.000	0.21	23.8	SURCHARGED	
2.001	6	7	118.755	0.294	0.000	0.48	49.8	SURCHARGED	
2.002	6	7	118.652	0.439	0.000	0.41	55.2	SURCHARGED	
2.003	8	6	118.568	1.220	0.000	0.27	64.5	SURCHARGED	
3.000	9.1	8	118.824	0.399	0.000	0.58	30.6	SURCHARGED	
3.001	9	1	118.424	1.279	57.708	0.68	54.7	FLOOD	
3.002	10	2	118.427	1.444	56.714	0.51	54.8	FLOOD	
3.003	11	5	118.480	1.598	0.000	0.39	67.8	FLOOD RISK	
4.000	12	6	118.520	1.234	0.000	0.25	25.6	SURCHARGED	
3.004	13	5	118.511	1.751	0.000	0.29	91.9	SURCHARGED	
3.005	14	4	118.525	1.972	0.000	0.53	129.7	SURCHARGED	
3.006	15	4	118.526	2.061	0.000	0.59	131.7	SURCHARGED	
2.004	16	4	118.526	2.083	0.000	0.56	194.0	SURCHARGED	
2.005	17	3	118.519	2.166	0.000	0.53	221.1	SURCHARGED	
5.000	18	3	118.391	1.504	0.000	0.11	13.1	SURCHARGED	
2.006	19	3	118.386	2.207	0.000	0.58	241.5	SURCHARGED	
2.007	20	3	118.246	2.239	0.000	0.63	252.4	SURCHARGED	
1.004	21	3	118.111	2.263	0.000	0.88	306.7	SURCHARGED	

M-EC		Page 344
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 120 minute 100 year Winter I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	2	118.107	2.320	0.000	0.56		348.8	SURCHARGED
6.000	23	3	118.252	1.322	7.176	0.37		16.8	FLOOD
6.001	24	3	118.244	1.551	0.074	0.43		16.0	FLOOD
6.002	25	3	118.239	1.614	0.000	0.35		25.8	FLOOD RISK
6.003	26	3	118.216	1.901	0.000	0.59		36.0	SURCHARGED
6.004	27	3	118.200	1.944	0.000	0.42		53.2	SURCHARGED
6.005	28	3	118.111	2.128	0.000	0.22		51.3	SURCHARGED
1.006	29	2	118.100	2.470	0.000	0.51		425.8	SURCHARGED
7.000	30	13	118.130	-0.130	0.000	0.37		14.6	OK
7.001	31	12	117.962	-0.133	0.000	0.28		32.9	OK
1.007	8	2	117.920	2.579	0.000	0.61		457.2	SURCHARGED
8.000	60	2	117.781	0.925	0.000	0.23		9.0	SURCHARGED
8.001	61	2	117.771	1.087	0.000	0.09		9.8	SURCHARGED
8.002	35	2	117.766	1.338	0.000	0.05		11.9	SURCHARGED
1.008	10	2	117.759	2.680	0.000	1.41		467.5	SURCHARGED
9.000	62	13	119.138	-0.162	0.000	0.43		35.9	OK
10.000	40	13	119.087	0.119	0.000	1.72		105.6	SURCHARGED
9.001	63	13	118.888	-0.091	0.000	0.92		155.2	OK
9.002	64	13	118.314	-0.204	0.000	0.43		196.8	OK
9.003	148	2	117.908	2.642	0.000	0.77		196.8	SURCHARGED
1.009	11	2	117.752	2.692	0.000	0.91		671.8	SURCHARGED
1.010	12	2	117.736	2.760	0.000	1.82		681.1	SURCHARGED
1.011	13	2	117.725	2.771	0.000	1.58		687.8	SURCHARGED
1.012	14	2	117.710	2.789	0.000	0.73		691.1	SURCHARGED
1.013	15	2	117.699	2.829	0.000	1.51		689.0	SURCHARGED
1.014	16	2	117.690	2.843	0.000	0.75		686.5	SURCHARGED
11.000	TWC16	10	117.751	-0.090	0.000	0.46		44.5	OK
11.001	TWC17	2	117.694	2.034	0.000	0.33		41.8	SURCHARGED
1.015	17	2	117.680	2.810	0.000	0.50		716.6	SURCHARGED
1.016	18	2	117.671	2.904	0.000	0.53		709.4	SURCHARGED
12.000	TWC1	9	117.979	0.178	0.000	0.40		14.8	SURCHARGED
12.001	TWC2	9	117.964	0.328	0.000	0.55		20.9	SURCHARGED
12.002	TWC3	7	117.937	0.567	0.000	1.20		41.4	SURCHARGED
12.003	TWC4	7	117.915	0.618	0.000	1.25		41.3	SURCHARGED
13.000	TWC5	13	118.243	-0.047	0.000	0.67		25.3	OK
13.001	TWC6	13	118.143	0.075	0.000	1.21		45.3	SURCHARGED
13.002	TWC7	12	117.939	0.041	0.000	0.80		57.2	SURCHARGED
12.004	TWC8	6	117.901	0.659	0.000	1.13		109.4	SURCHARGED
12.005	TWC9	2	117.820	0.652	0.000	1.36		119.9	SURCHARGED
12.006	TWC10	2	117.790	0.670	0.000	0.77		123.9	SURCHARGED
1.017	TWC11	2	117.662	2.995	0.000	0.56		818.0	SURCHARGED
1.018	19	2	117.652	3.059	0.000	0.39		812.5	SURCHARGED
14.000	TWC12	2	117.659	0.250	0.000	0.24		8.9	SURCHARGED
14.001	TWC13	2	117.653	0.401	0.000	0.13		16.8	SURCHARGED
14.002	TWC14	2	117.647	1.368	0.000	0.39		30.9	SURCHARGED
1.019	TWC15	2	117.642	3.314	0.000	0.66		830.6	SURCHARGED
15.000	65	7	118.061	0.692	0.000	0.51		35.0	SURCHARGED
16.000	136	11	118.066	-0.148	0.000	0.19		11.5	OK
16.001	137	7	118.057	0.150	0.000	0.22		12.2	SURCHARGED



M-EC		Page 345
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 120 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	7	118.050	0.331	0.000	0.17		22.3	SURCHARGED
15.001	66	7	118.039	0.853	0.000	0.62		73.4	SURCHARGED
15.002	67	6	117.947	0.903	0.000	0.69		77.8	SURCHARGED
17.000	9	7	117.871	0.287	0.000	0.04		3.1	SURCHARGED
17.001	75	7	117.871	0.474	0.000	0.26		20.3	SURCHARGED
17.002	76	7	117.866	0.646	0.000	0.09		37.4	SURCHARGED
15.003	68	6	117.865	0.920	0.000	0.51		123.7	SURCHARGED
15.004	69	5	117.820	1.003	0.000	0.46		146.6	SURCHARGED
15.005	70	5	117.808	1.080	0.000	0.50		141.4	SURCHARGED
15.006	71	5	117.797	1.123	0.000	0.53		163.4	SURCHARGED
18.000	147	5	117.816	0.845	0.000	0.17		6.8	SURCHARGED
18.001	112	5	117.811	0.964	0.000	0.29		15.0	FLOOD RISK
18.002	113	5	117.806	1.003	0.000	0.15		18.9	SURCHARGED
19.000	115	5	117.816	0.322	0.000	0.10		4.7	SURCHARGED
19.001	116	5	117.812	0.582	0.000	0.17		13.3	SURCHARGED
18.003	77	5	117.803	1.053	0.000	0.27		33.4	SURCHARGED
20.000	134	5	117.810	0.378	0.000	0.19		15.7	SURCHARGED
18.004	135	5	117.798	1.098	0.000	0.34		58.0	SURCHARGED
18.005	78	5	117.791	1.146	0.000	0.36		62.8	SURCHARGED
15.007	72	5	117.784	1.186	0.000	0.80		227.8	SURCHARGED
15.008	73	3	117.755	1.301	0.000	1.13		242.1	SURCHARGED
15.009	74	2	117.734	1.323	0.000	1.48		240.1	SURCHARGED
15.010	98	2	117.717	1.332	0.000	0.88		236.9	SURCHARGED
15.011	99	2	117.692	1.409	0.000	0.81		229.3	SURCHARGED
15.012	101	2	117.660	1.561	0.000	0.83		228.7	SURCHARGED
21.000	142	2	117.840	0.551	0.000	0.39		18.2	SURCHARGED
21.001	143	2	117.825	0.958	0.000	0.44		26.4	SURCHARGED
22.000	118	3	118.000	0.694	0.000	0.04		1.2	SURCHARGED
22.001	119	3	118.000	0.780	0.000	0.26		8.3	SURCHARGED
22.002	120	3	117.995	0.834	0.000	0.40		25.1	SURCHARGED
23.000	129	2	117.982	1.105	0.000	0.15		12.5	SURCHARGED
23.001	130	2	117.976	1.234	0.000	0.14		14.4	SURCHARGED
22.003	121	2	117.969	1.475	0.000	0.73		47.7	SURCHARGED
24.000	131	5	117.995	0.916	0.000	0.56		23.5	SURCHARGED
24.001	132	2	117.972	1.190	0.000	1.02		27.7	SURCHARGED
24.002	133	2	117.957	1.217	0.000	0.25		31.9	SURCHARGED
22.004	122	2	117.945	1.521	0.000	0.46		83.5	SURCHARGED
22.005	123	2	117.870	1.542	0.000	0.63		96.2	SURCHARGED
25.000	139	5	117.872	0.986	0.000	0.61		16.5	SURCHARGED
25.001	140	4	117.861	1.087	0.000	0.56		34.4	SURCHARGED
22.006	124	2	117.838	1.577	0.000	0.89		133.6	SURCHARGED
22.007	125	2	117.819	1.613	0.000	0.48		131.9	SURCHARGED
22.008	126	2	117.812	1.652	0.000	0.26		139.8	SURCHARGED
22.009	127	2	117.806	1.743	0.000	0.56		137.1	SURCHARGED
21.002	149	2	117.801	1.786	0.000	0.20		157.0	SURCHARGED
1.020	20	2	117.631	4.077	0.000	7.33		485.8	SURCHARGED
1.021	108	2	116.624	3.079	0.000	1.94		486.4	SURCHARGED
1.022	21	3	116.303	2.894	0.000	1.87		477.7	SURCHARGED
1.023	22	3	115.858	2.637	0.000	1.96		478.1	SURCHARGED

M-EC		Page 346
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	13	119.356	-0.582	0.000	0.05		33.6	OK
26.001	90	13	119.031	-0.576	0.000	0.05		39.8	OK
27.000	200	13	119.586	-0.230	0.000	0.12		19.2	OK
27.001	109	13	118.889	-0.390	0.000	0.15		21.5	OK
26.002	91	13	118.663	-0.585	0.000	0.11		61.2	OK
28.000	TWD27	13	119.429	-0.188	0.000	0.30		39.1	OK
26.003	91A	13	118.545	-0.617	0.000	0.14		107.7	OK
26.004	92	13	118.481	-0.583	0.000	0.19		122.5	OK
26.005	93	13	118.399	-0.604	0.000	0.16		122.2	OK
29.000	TWD29	13	119.452	-0.113	0.000	0.50		17.9	OK
29.001	TWD30	13	119.301	-0.157	0.000	0.46		29.5	OK
29.002	TWD31	13	119.145	-0.203	0.000	0.23		39.6	OK
26.006	94	13	118.299	-0.567	0.000	0.21		163.1	OK
26.007	95	13	118.191	-0.564	0.000	0.22		167.7	OK
30.000	201	13	119.255	-0.186	0.000	0.31		26.1	OK
30.001	202	13	119.042	-0.148	0.000	0.47		35.4	OK
30.002	203	13	119.008	-0.093	0.000	0.81		61.3	OK
30.003	204	13	118.760	-0.223	0.000	0.34		72.0	OK
30.004	117	13	118.537	-0.134	0.000	0.74		76.5	OK
26.008	95A	13	118.109	-0.502	0.000	0.32		257.8	OK
26.009	96	13	117.901	-0.532	0.000	0.27		257.0	OK
26.010	97	13	117.481	-0.557	0.000	0.23		258.0	OK
31.000	121	13	117.187	-0.433	0.000	0.46		166.4	OK
32.000	TWD4	13	120.106	-0.155	0.000	0.21		10.4	OK
32.001	TWD5	13	119.920	-0.129	0.000	0.38		22.8	OK
33.000	TWD16	13	119.576	-0.135	0.000	0.58		37.9	OK
32.002	TWD6	13	119.425	-0.163	0.000	0.61		65.3	OK
34.000	TWD17	13	119.562	-0.145	0.000	0.27		14.2	OK
35.000	TWD18	13	119.488	-0.150	0.000	0.24		10.0	OK
32.003	TWD7	13	119.270	-0.170	0.000	0.58		95.7	OK
32.004	TWD8	13	118.779	-0.204	0.000	0.58		118.1	OK
32.005	TWD9	13	118.693	-0.158	0.000	0.74		126.0	OK
32.006	TWD10	13	118.645	-0.156	0.000	0.75		127.2	OK
36.000	TWD19	13	119.615	-0.106	0.000	0.55		37.8	OK
32.007	TWD11	13	117.659	-0.062	0.000	1.12		169.6	OK
37.000	TWD20	13	119.357	-0.129	0.000	0.38		14.4	OK
37.001	TWD21	13	119.108	-0.163	0.000	0.43		28.8	OK
37.002	TWD22	13	118.935	-0.131	0.000	0.60		40.8	OK
37.003	TWD23	13	118.673	-0.187	0.000	0.50		53.1	OK
37.004	TWD24	13	118.550	-0.236	0.000	0.30		62.0	OK
37.005	TWD25	13	118.066	-0.232	0.000	0.31		70.3	OK
32.008	TWD12	13	117.521	-0.179	0.000	0.72		251.4	OK
38.000	TWD26	13	119.290	-0.160	0.000	0.19		18.6	OK
32.009	TWD13	13	117.427	-0.188	0.000	0.63		276.8	OK
32.010	TWD14	13	117.371	-0.176	0.000	0.70		287.3	OK
32.011	TWD15	13	117.324	-0.171	0.000	0.96		299.9	OK
26.011	98	13	116.952	-0.636	0.000	0.33		716.8	OK
26.012	99	12	116.525	-0.495	0.000	0.43		716.1	OK
26.013	100	12	116.466	-0.263	0.000	0.91		711.7	OK

M-EC		Page 347
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 120 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	4	115.630	2.498	0.000	2.66	689.8	689.8	SURCHARGED
1.025	24	6	114.179	1.253	0.000	2.70	690.0	690.0	SURCHARGED
1.026	25	7	113.203	0.414	0.000	1.08	690.2	690.2	SURCHARGED
39.000	79	13	121.691	-0.482	0.000	0.02	8.0	8.0	OK
39.001	80	13	121.306	-0.453	0.000	0.05	22.3	22.3	OK
39.002	81	13	120.748	-0.579	0.000	0.05	27.6	27.6	OK
40.000	130	13	121.056	-0.145	0.000	0.27	9.1	9.1	OK
41.000	BAR1	13	121.725	-0.080	0.000	0.44	12.8	12.8	OK
41.001	131	13	120.923	-0.251	0.000	0.24	22.8	22.8	OK
39.003	81A	13	120.604	-0.530	0.000	0.10	63.6	63.6	OK
42.000	133	13	120.706	-0.240	0.000	0.09	5.0	5.0	OK
39.004	82	13	120.349	-0.556	0.000	0.15	80.5	80.5	OK
39.005	83	13	120.266	-0.569	0.000	0.13	80.2	80.2	OK
43.000	BAR2	13	121.557	-0.072	0.000	0.53	16.6	16.6	OK
43.001	136	13	120.473	-0.219	0.000	0.36	26.8	26.8	OK
39.006	83A	13	120.153	-0.517	0.000	0.19	114.7	114.7	OK
44.000	206	12	120.698	-0.159	0.000	0.16	16.8	16.8	OK
44.001	207	12	120.688	-0.132	0.000	0.17	20.1	20.1	OK
44.002	208	12	120.668	-0.108	0.000	0.25	34.2	34.2	OK
44.003	209	12	120.618	-0.087	0.000	0.38	35.3	35.3	OK
45.000	210	13	120.932	-0.153	0.000	0.22	10.0	10.0	OK
45.001	211	13	120.749	-0.193	0.000	0.28	18.2	18.2	OK
45.002	212	12	120.622	-0.134	0.000	0.24	25.9	25.9	OK
44.004	213	12	120.601	-0.081	0.000	0.75	77.5	77.5	OK
44.005	214	12	120.572	-0.074	0.000	0.61	81.3	81.3	OK
44.006	215	12	120.516	-0.064	0.000	1.00	94.5	94.5	OK
44.007	138	12	120.396	-0.161	0.000	0.74	94.5	94.5	OK
39.007	84	13	120.064	-0.461	0.000	0.38	229.3	229.3	OK
46.000	BAR4	13	121.613	-0.096	0.000	0.62	23.3	23.3	OK
46.001	BAR5	13	121.481	-0.007	0.000	0.92	32.8	32.8	OK
47.000	BAR6	13	122.081	-0.070	0.000	0.56	9.5	9.5	OK
47.001	BAR7	13	121.770	-0.101	0.000	0.59	21.5	21.5	OK
47.002	BAR8	13	121.616	-0.111	0.000	0.51	30.1	30.1	OK
46.002	BAR9	13	121.387	0.008	0.000	1.13	69.7	69.7	SURCHARGED
46.003	BAR10	13	121.158	-0.143	0.000	0.54	88.1	88.1	OK
46.004	140	13	120.333	-0.162	0.000	0.73	88.1	88.1	OK
39.008	85	13	120.012	-0.456	0.000	0.41	316.9	316.9	OK
39.009	86	13	119.878	-0.456	0.000	0.41	328.6	328.6	OK
48.000	BAR3	13	120.858	-0.090	0.000	0.34	11.1	11.1	OK
48.001	143	13	119.862	-0.312	0.000	0.21	23.4	23.4	OK
49.000	216	13	120.461	-0.209	0.000	0.20	34.9	34.9	OK
49.001	144	13	119.905	-0.290	0.000	0.28	37.0	37.0	OK
39.010	87	13	119.652	-0.500	0.000	0.40	387.0	387.0	OK
39.011	88	13	119.566	-0.441	0.000	0.47	452.3	452.3	OK
39.012	103	13	119.472	-0.379	0.000	0.51	491.1	491.1	OK
50.000	BAR11	13	121.385	-0.060	0.000	0.66	11.5	11.5	OK
50.001	BAR12	13	121.031	-0.107	0.000	0.54	27.8	27.8	OK
51.000	BAR13	13	120.841	-0.127	0.000	0.14	4.6	4.6	OK
50.002	BAR14	13	120.836	-0.083	0.000	0.72	38.7	38.7	OK

M-EC		Page 348
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage Network 2016.1		

Summary Wizard of 120 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	13	120.889	-0.062	0.000	0.64		10.8	OK
52.001	BAR16	13	120.657	-0.069	0.000	0.44		19.3	OK
50.003	BAR17	13	120.630	0.012	0.000	1.01		62.2	SURCHARGED
50.004	BAR18	13	120.546	0.005	0.000	1.09		68.6	SURCHARGED
50.005	BAR19	13	120.289	-0.160	0.000	0.44		77.1	OK
50.006	149	13	119.490	-0.235	0.000	0.45		76.7	OK
53.000	TWD1	13	120.457	-0.157	0.000	0.20		7.8	OK
54.000	TWD3	13	120.692	-0.190	0.000	0.06		4.9	OK
53.001	TWD2	13	120.101	-0.145	0.000	0.27		24.5	OK
39.013	104	13	119.372	-0.298	0.000	0.88		592.4	OK
39.014	104A	12	119.152	-0.483	0.000	0.53		596.6	OK
55.000	BAR20	13	121.449	-0.044	0.000	0.84		14.8	OK
55.001	BAR21	13	120.942	-0.111	0.000	0.51		27.5	OK
56.000	BAR22	13	120.513	-0.092	0.000	0.65		23.9	OK
56.001	BAR23	13	120.416	-0.053	0.000	0.94		30.8	OK
55.002	BAR24	13	120.308	-0.106	0.000	0.74		60.4	OK
55.003	BAR25	13	120.044	-0.150	0.000	0.67		71.3	OK
55.004	BAR26	13	119.874	-0.242	0.000	0.27		85.1	OK
39.015	105	12	118.983	-0.491	0.000	0.50		675.0	OK
39.016	106	12	118.825	-1.322	0.000	0.09		670.9	OK
39.017	107	12	116.148	-0.399	0.000	0.36		665.5	OK
1.027	26	12	112.432	-0.476	0.000	0.35		1321.3	OK
1.028	27	10	109.586	-0.161	0.000	0.64		1318.7	FLOOD RISK*
1.029	28	10	106.649	-0.542	0.000	0.29		1316.1	OK
1.030	29	9	97.719	-0.758	0.000	0.22		1311.1	OK
1.031	30	8	93.185	-0.197	0.000	0.63		1309.4	FLOOD RISK*
1.032	31	8	92.150	-0.100	0.000	0.83		1301.9	FLOOD RISK*
1.033	32	14	91.635	-0.488	0.000	0.41		1293.5	OK
1.034	33	11	91.513	1.240	0.000	1.31		320.8	SURCHARGED*
57.000	108	17	91.548	-0.338	0.000	0.54		882.7	OK
57.001	109	19	91.372	-0.514	0.000	0.44		841.3	OK
57.002	110	16	91.210	-0.676	0.000	0.31		770.6	OK
1.035	109	11	91.214	1.348	0.000	0.26		63.4	SURCHARGED*
1.036	34	17	86.650	0.000	0.000	0.76		63.3	SURCHARGED*

M-EC		Page 349
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow			
1.000	1	9	117.853	0.998	0.000	0.12	9.4	FLOOD RISK		
1.001	2	8	117.847	1.138	0.000	0.14	11.9	FLOOD RISK		
1.002	3	8	117.839	1.351	0.000	0.09	11.3	FLOOD RISK		
1.003	4	8	117.834	1.487	0.000	0.20	36.1	SURCHARGED		
2.000	5	20	118.445	-0.230	0.000	0.12	14.1	OK		
2.001	6	15	118.299	-0.162	0.000	0.29	30.1	OK		
2.002	6	9	118.282	0.069	0.000	0.25	34.4	SURCHARGED		
2.003	8	9	118.256	0.908	0.000	0.18	41.8	SURCHARGED		
3.000	9.1	11	118.484	0.059	0.000	0.37	19.6	SURCHARGED		
3.001	9	9	118.379	1.234	12.734	0.25	20.3	FLOOD		
3.002	10	8	118.372	1.389	1.514	0.22	23.6	FLOOD		
3.003	11	9	118.370	1.488	0.000	0.26	46.5	FLOOD RISK		
4.000	12	9	118.368	1.082	0.000	0.15	15.8	SURCHARGED		
3.004	13	8	118.362	1.602	0.000	0.20	62.0	SURCHARGED		
3.005	14	8	118.354	1.801	0.000	0.35	85.4	SURCHARGED		
3.006	15	8	118.245	1.780	0.000	0.39	87.2	SURCHARGED		
2.004	16	8	118.242	1.799	0.000	0.37	128.2	SURCHARGED		
2.005	17	8	118.232	1.879	0.000	0.35	144.5	SURCHARGED		
5.000	18	8	118.095	1.208	0.000	0.07	8.4	SURCHARGED		
2.006	19	8	118.090	1.911	0.000	0.38	156.8	SURCHARGED		
2.007	20	8	117.951	1.944	0.000	0.41	163.5	SURCHARGED		
1.004	21	8	117.816	1.968	0.000	0.57	197.7	SURCHARGED		

M-EC		Page 350
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	8	117.807	2.020	0.000	0.36	224.5	SURCHARGED	
6.000	23	9	117.900	0.970	0.000	0.25	11.3	SURCHARGED	
6.001	24	9	117.881	1.188	0.000	0.29	10.5	SURCHARGED	
6.002	25	9	117.873	1.248	0.000	0.23	16.9	SURCHARGED	
6.003	26	8	117.852	1.537	0.000	0.38	23.4	SURCHARGED	
6.004	27	8	117.842	1.586	0.000	0.27	34.5	SURCHARGED	
6.005	28	8	117.800	1.817	0.000	0.15	35.9	SURCHARGED	
1.006	29	6	117.792	2.162	0.000	0.33	275.4	SURCHARGED	
7.000	30	20	118.107	-0.153	0.000	0.22	8.7	OK	
7.001	31	20	117.931	-0.164	0.000	0.17	19.5	OK	
1.007	8	6	117.611	2.270	0.000	0.40	297.2	SURCHARGED	
8.000	60	6	117.465	0.609	0.000	0.15	5.8	SURCHARGED	
8.001	61	6	117.458	0.774	0.000	0.06	6.2	SURCHARGED	
8.002	35	6	117.455	1.027	0.000	0.03	8.3	SURCHARGED	
1.008	10	6	117.450	2.371	0.000	0.91	302.7	SURCHARGED	
9.000	62	20	119.103	-0.197	0.000	0.26	21.4	OK	
10.000	40	19	118.973	0.005	0.000	1.00	61.4	SURCHARGED	
9.001	63	20	118.801	-0.178	0.000	0.54	91.2	OK	
9.002	64	20	118.270	-0.248	0.000	0.25	116.0	OK	
9.003	148	8	117.596	2.330	0.000	0.46	116.8	SURCHARGED	
1.009	11	6	117.441	2.381	0.000	0.58	424.9	SURCHARGED	
1.010	12	6	117.422	2.446	0.000	1.15	430.6	SURCHARGED	
1.011	13	6	117.409	2.455	0.000	0.99	432.8	SURCHARGED	
1.012	14	6	117.393	2.472	0.000	0.46	434.4	SURCHARGED	
1.013	15	6	117.381	2.511	0.000	0.95	432.8	SURCHARGED	
1.014	16	6	117.370	2.523	0.000	0.47	431.2	SURCHARGED	
11.000	TWC16	20	117.695	-0.146	0.000	0.27	26.5	OK	
11.001	TWC17	6	117.371	1.711	0.000	0.20	25.2	SURCHARGED	
1.015	17	6	117.358	2.488	0.000	0.31	450.8	SURCHARGED	
1.016	18	6	117.347	2.580	0.000	0.33	447.9	SURCHARGED	
12.000	TWC1	15	117.668	-0.133	0.000	0.24	8.8	OK	
12.001	TWC2	13	117.658	0.022	0.000	0.33	12.7	SURCHARGED	
12.002	TWC3	13	117.640	0.270	0.000	0.73	25.3	SURCHARGED	
12.003	TWC4	11	117.621	0.324	0.000	0.76	25.3	SURCHARGED	
13.000	TWC5	20	118.164	-0.126	0.000	0.40	15.2	OK	
13.001	TWC6	20	117.987	-0.081	0.000	0.73	27.3	OK	
13.002	TWC7	19	117.783	-0.115	0.000	0.48	34.5	OK	
12.004	TWC8	9	117.606	0.364	0.000	0.69	66.5	SURCHARGED	
12.005	TWC9	9	117.523	0.355	0.000	0.82	72.8	SURCHARGED	
12.006	TWC10	6	117.446	0.326	0.000	0.47	75.3	SURCHARGED	
1.017	TWC11	6	117.336	2.669	0.000	0.36	519.6	SURCHARGED	
1.018	19	6	117.325	2.732	0.000	0.25	517.4	SURCHARGED	
14.000	TWC12	7	117.330	-0.079	0.000	0.14	5.3	OK	
14.001	TWC13	6	117.325	0.073	0.000	0.08	10.0	SURCHARGED	
14.002	TWC14	6	117.318	1.039	0.000	0.24	18.6	SURCHARGED	
1.019	TWC15	6	117.314	2.986	0.000	0.42	532.3	SURCHARGED	
15.000	65	9	117.671	0.302	0.000	0.31	21.5	SURCHARGED	
16.000	136	20	118.039	-0.175	0.000	0.11	6.8	OK	
16.001	137	20	117.735	-0.172	0.000	0.13	7.3	OK	

M-EC		Page 351
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 100 year Winter I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	9	117.664	-0.055	0.000	0.10		13.2	OK
15.001	66	9	117.655	0.469	0.000	0.39		45.7	SURCHARGED
15.002	67	9	117.608	0.564	0.000	0.45		50.5	SURCHARGED
17.000	9	9	117.565	-0.019	0.000	0.02		1.8	OK
17.001	75	9	117.564	0.167	0.000	0.16		12.3	SURCHARGED
17.002	76	9	117.558	0.338	0.000	0.06		23.4	SURCHARGED
15.003	68	9	117.555	0.610	0.000	0.33		80.6	SURCHARGED
15.004	69	9	117.454	0.637	0.000	0.31		97.1	SURCHARGED
15.005	70	9	117.444	0.716	0.000	0.33		94.1	SURCHARGED
15.006	71	9	117.435	0.761	0.000	0.34		106.7	SURCHARGED
18.000	147	9	117.450	0.479	0.000	0.11		4.3	SURCHARGED
18.001	112	9	117.446	0.599	0.000	0.18		9.5	SURCHARGED
18.002	113	9	117.443	0.640	0.000	0.10		12.0	SURCHARGED
19.000	115	9	117.450	-0.044	0.000	0.06		2.8	OK
19.001	116	9	117.447	0.217	0.000	0.10		8.0	SURCHARGED
18.003	77	9	117.440	0.690	0.000	0.18		22.1	SURCHARGED
20.000	134	9	117.445	0.013	0.000	0.11		9.3	SURCHARGED
18.004	135	9	117.436	0.736	0.000	0.22		37.5	SURCHARGED
18.005	78	9	117.430	0.785	0.000	0.23		39.6	SURCHARGED
15.007	72	9	117.425	0.827	0.000	0.53		150.0	SURCHARGED
15.008	73	8	117.402	0.948	0.000	0.74		158.9	SURCHARGED
15.009	74	8	117.385	0.974	0.000	0.97		157.9	SURCHARGED
15.010	98	8	117.372	0.987	0.000	0.58		156.5	SURCHARGED
15.011	99	7	117.352	1.069	0.000	0.53		149.3	SURCHARGED
15.012	101	7	117.325	1.226	0.000	0.54		150.1	SURCHARGED
21.000	142	8	117.510	0.221	0.000	0.23		10.9	SURCHARGED
21.001	143	6	117.496	0.629	0.000	0.27		16.3	SURCHARGED
22.000	118	9	117.632	0.326	0.000	0.02		0.8	SURCHARGED
22.001	119	9	117.631	0.411	0.000	0.16		5.0	SURCHARGED
22.002	120	9	117.628	0.467	0.000	0.24		15.1	SURCHARGED
23.000	129	7	117.617	0.740	0.000	0.10		7.8	SURCHARGED
23.001	130	7	117.613	0.871	0.000	0.09		9.0	SURCHARGED
22.003	121	6	117.607	1.113	0.000	0.45		29.0	SURCHARGED
24.000	131	9	117.644	0.565	0.000	0.35		14.6	SURCHARGED
24.001	132	8	117.624	0.841	0.000	0.68		18.5	SURCHARGED
24.002	133	6	117.610	0.870	0.000	0.16		20.5	SURCHARGED
22.004	122	6	117.599	1.175	0.000	0.28		50.9	SURCHARGED
22.005	123	6	117.555	1.227	0.000	0.39		58.5	SURCHARGED
25.000	139	9	117.548	0.662	0.000	0.37		10.1	SURCHARGED
25.001	140	9	117.538	0.764	0.000	0.37		22.6	SURCHARGED
22.006	124	6	117.514	1.252	0.000	0.55		83.0	SURCHARGED
22.007	125	6	117.491	1.285	0.000	0.30		82.0	SURCHARGED
22.008	126	6	117.484	1.325	0.000	0.16		86.8	SURCHARGED
22.009	127	6	117.479	1.416	0.000	0.35		85.2	SURCHARGED
21.002	149	6	117.474	1.459	0.000	0.12		98.2	SURCHARGED
1.020	20	6	117.302	3.748	0.000	6.97		461.9	SURCHARGED
1.021	108	8	116.278	2.733	0.000	1.85		463.5	SURCHARGED
1.022	21	8	115.953	2.544	0.000	1.80		458.5	SURCHARGED
1.023	22	10	115.506	2.285	0.000	1.88		458.9	SURCHARGED

M-EC		Page 352
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 100 year Winter I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	20	119.337	-0.601	0.000	0.03		20.0	OK
26.001	90	20	119.010	-0.597	0.000	0.03		23.7	OK
27.000	200	20	119.569	-0.247	0.000	0.07		11.4	OK
27.001	109	20	118.859	-0.420	0.000	0.09		12.8	OK
26.002	91	20	118.622	-0.626	0.000	0.07		36.4	OK
28.000	TWD27	20	119.402	-0.215	0.000	0.18		23.2	OK
26.003	91A	20	118.497	-0.665	0.000	0.08		64.1	OK
26.004	92	20	118.423	-0.641	0.000	0.11		73.0	OK
26.005	93	20	118.348	-0.655	0.000	0.09		72.9	OK
29.000	TWD29	20	119.423	-0.142	0.000	0.30		10.6	OK
29.001	TWD30	20	119.264	-0.194	0.000	0.27		17.6	OK
29.002	TWD31	20	119.121	-0.227	0.000	0.14		23.6	OK
26.006	94	20	118.236	-0.630	0.000	0.13		97.3	OK
26.007	95	20	118.127	-0.628	0.000	0.13		100.2	OK
30.000	201	20	119.228	-0.213	0.000	0.19		15.5	OK
30.001	202	20	118.998	-0.192	0.000	0.28		21.1	OK
30.002	203	20	118.948	-0.153	0.000	0.48		36.5	OK
30.003	204	19	118.723	-0.260	0.000	0.20		42.9	OK
30.004	117	19	118.469	-0.202	0.000	0.44		45.6	OK
26.008	95A	19	118.031	-0.580	0.000	0.19		154.1	OK
26.009	96	19	117.830	-0.603	0.000	0.16		153.9	OK
26.010	97	19	117.416	-0.622	0.000	0.14		154.1	OK
31.000	121	20	117.087	-0.533	0.000	0.27		99.0	OK
32.000	TWD4	20	120.089	-0.172	0.000	0.13		6.2	OK
32.001	TWD5	20	119.897	-0.152	0.000	0.23		13.6	OK
33.000	TWD16	20	119.533	-0.178	0.000	0.35		22.6	OK
32.002	TWD6	20	119.369	-0.219	0.000	0.36		38.9	OK
34.000	TWD17	20	119.542	-0.165	0.000	0.16		8.5	OK
35.000	TWD18	20	119.470	-0.168	0.000	0.14		6.0	OK
32.003	TWD7	20	119.217	-0.223	0.000	0.34		57.1	OK
32.004	TWD8	19	118.715	-0.268	0.000	0.34		70.5	OK
32.005	TWD9	19	118.611	-0.240	0.000	0.44		75.2	OK
32.006	TWD10	19	118.562	-0.239	0.000	0.45		76.0	OK
36.000	TWD19	20	119.584	-0.137	0.000	0.33		22.5	OK
32.007	TWD11	19	117.482	-0.239	0.000	0.67		101.4	OK
37.000	TWD20	20	119.333	-0.153	0.000	0.23		8.6	OK
37.001	TWD21	20	119.073	-0.198	0.000	0.25		17.1	OK
37.002	TWD22	19	118.890	-0.176	0.000	0.36		24.3	OK
37.003	TWD23	18	118.625	-0.235	0.000	0.30		31.7	OK
37.004	TWD24	18	118.516	-0.270	0.000	0.18		37.0	OK
37.005	TWD25	18	118.031	-0.267	0.000	0.18		41.9	OK
32.008	TWD12	17	117.364	-0.336	0.000	0.43		151.3	OK
38.000	TWD26	20	119.275	-0.175	0.000	0.11		11.1	OK
32.009	TWD13	17	117.258	-0.357	0.000	0.38		166.9	OK
32.010	TWD14	17	117.201	-0.346	0.000	0.42		173.2	OK
32.011	TWD15	17	117.154	-0.341	0.000	0.58		181.0	OK
26.011	98	17	116.854	-0.734	0.000	0.20		432.6	OK
26.012	99	17	116.333	-0.687	0.000	0.26		432.7	OK
26.013	100	17	116.237	-0.492	0.000	0.55		432.5	OK



M-EC		Page 353
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 240 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	10	115.280	2.148	0.000	2.53	655.4	SURCHARGED
1.025	24	14	113.965	1.039	0.000	2.56	655.5	SURCHARGED
1.026	25	16	113.071	0.282	0.000	1.03	655.6	SURCHARGED
39.000	79	21	121.674	-0.499	0.000	0.01	4.8	OK
39.001	80	20	121.292	-0.467	0.000	0.03	13.2	OK
39.002	81	19	120.728	-0.599	0.000	0.03	16.4	OK
40.000	130	17	121.037	-0.164	0.000	0.16	5.5	OK
41.000	BAR1	20	121.707	-0.098	0.000	0.26	7.6	OK
41.001	131	20	120.893	-0.281	0.000	0.14	13.6	OK
39.003	81A	19	120.568	-0.566	0.000	0.06	37.9	OK
42.000	133	17	120.690	-0.256	0.000	0.05	3.0	OK
39.004	82	19	120.306	-0.599	0.000	0.09	48.0	OK
39.005	83	19	120.221	-0.614	0.000	0.08	48.0	OK
43.000	BAR2	20	121.537	-0.092	0.000	0.32	9.9	OK
43.001	136	20	120.435	-0.257	0.000	0.22	16.0	OK
39.006	83A	19	120.087	-0.583	0.000	0.11	68.6	OK
44.000	206	18	120.533	-0.324	0.000	0.10	10.3	OK
44.001	207	17	120.517	-0.302	0.000	0.11	13.0	OK
44.002	208	17	120.504	-0.272	0.000	0.16	22.1	OK
44.003	209	17	120.481	-0.223	0.000	0.24	22.1	OK
45.000	210	20	120.914	-0.171	0.000	0.13	6.0	OK
45.001	211	20	120.723	-0.219	0.000	0.16	10.9	OK
45.002	212	17	120.495	-0.261	0.000	0.15	16.3	OK
44.004	213	17	120.474	-0.208	0.000	0.48	50.0	OK
44.005	214	17	120.438	-0.208	0.000	0.39	52.3	OK
44.006	215	17	120.395	-0.185	0.000	0.65	61.2	OK
44.007	138	17	120.327	-0.230	0.000	0.48	61.2	OK
39.007	84	17	119.977	-0.548	0.000	0.24	141.6	OK
46.000	BAR4	20	121.578	-0.131	0.000	0.37	13.9	OK
46.001	BAR5	20	121.382	-0.106	0.000	0.55	19.6	OK
47.000	BAR6	20	122.060	-0.091	0.000	0.33	5.6	OK
47.001	BAR7	20	121.738	-0.133	0.000	0.35	12.8	OK
47.002	BAR8	19	121.587	-0.140	0.000	0.31	17.9	OK
46.002	BAR9	19	121.260	-0.119	0.000	0.68	41.7	OK
46.003	BAR10	19	121.118	-0.183	0.000	0.32	52.6	OK
46.004	140	19	120.253	-0.242	0.000	0.44	52.6	OK
39.008	85	18	119.923	-0.545	0.000	0.25	194.1	OK
39.009	86	17	119.789	-0.545	0.000	0.25	202.2	OK
48.000	BAR3	20	120.843	-0.105	0.000	0.20	6.6	OK
48.001	143	20	119.828	-0.346	0.000	0.12	13.9	OK
49.000	216	20	120.439	-0.231	0.000	0.12	20.7	OK
49.001	144	20	119.866	-0.329	0.000	0.16	22.0	OK
39.010	87	17	119.555	-0.597	0.000	0.25	237.7	OK
39.011	88	17	119.438	-0.569	0.000	0.29	277.7	OK
39.012	103	17	119.306	-0.545	0.000	0.31	300.8	OK
50.000	BAR11	20	121.360	-0.085	0.000	0.40	6.8	OK
50.001	BAR12	20	121.001	-0.137	0.000	0.32	16.5	OK
51.000	BAR13	20	120.804	-0.164	0.000	0.09	2.7	OK
50.002	BAR14	20	120.797	-0.122	0.000	0.43	23.0	OK

M-EC		Page 354
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 240 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
52.000	BAR15	20	120.865	-0.086	0.000	0.38		6.4	OK
52.001	BAR16	20	120.579	-0.147	0.000	0.26		11.5	OK
50.003	BAR17	20	120.486	-0.132	0.000	0.60		37.1	OK
50.004	BAR18	19	120.418	-0.123	0.000	0.65		41.2	OK
50.005	BAR19	19	120.254	-0.195	0.000	0.27		46.4	OK
50.006	149	19	119.435	-0.290	0.000	0.27		46.4	OK
53.000	TWD1	20	120.441	-0.173	0.000	0.12		4.7	OK
54.000	TWD3	20	120.684	-0.198	0.000	0.03		2.9	OK
53.001	TWD2	20	120.081	-0.165	0.000	0.16		14.5	OK
39.013	104	17	119.170	-0.500	0.000	0.54		361.6	OK
39.014	104A	17	119.012	-0.623	0.000	0.32		363.8	OK
55.000	BAR20	20	121.418	-0.075	0.000	0.50		8.8	OK
55.001	BAR21	20	120.912	-0.141	0.000	0.30		16.4	OK
56.000	BAR22	20	120.477	-0.128	0.000	0.39		14.2	OK
56.001	BAR23	20	120.364	-0.105	0.000	0.56		18.3	OK
55.002	BAR24	20	120.253	-0.161	0.000	0.44		36.0	OK
55.003	BAR25	20	119.983	-0.211	0.000	0.40		42.5	OK
55.004	BAR26	19	119.841	-0.275	0.000	0.16		50.8	OK
39.015	105	17	118.843	-0.631	0.000	0.30		412.9	OK
39.016	106	17	118.681	-1.466	0.000	0.06		412.2	OK
39.017	107	17	116.014	-0.533	0.000	0.22		411.5	OK
1.027	26	17	112.351	-0.557	0.000	0.28		1046.7	OK
1.028	27	17	109.516	-0.231	0.000	0.50		1046.5	FLOOD RISK*
1.029	28	17	106.577	-0.614	0.000	0.23		1046.2	OK
1.030	29	17	97.639	-0.838	0.000	0.17		1045.0	OK
1.031	30	17	93.098	-0.284	0.000	0.50		1044.8	FLOOD RISK*
1.032	31	17	92.038	-0.212	0.000	0.66		1042.9	FLOOD RISK*
1.033	32	6	91.722	-0.401	0.000	0.33		1041.2	OK
1.034	33	5	91.710	1.437	0.000	1.26		307.9	SURCHARGED*
57.000	108	22	91.441	-0.445	0.000	0.33		535.5	OK
57.001	109	15	91.441	-0.445	0.000	0.27		524.1	OK
57.002	110	8	91.441	-0.445	0.000	0.21		505.8	OK
1.035	109	8	91.443	1.577	0.000	0.27		65.9	SURCHARGED*
1.036	34	16	86.650	0.000	0.000	0.78		64.8	SURCHARGED*

M-EC		Page 355
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 360 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
1.000	1	11	117.425	0.570	0.000	0.09	7.3	SURCHARGED	
1.001	2	11	117.420	0.711	0.000	0.11	9.3	SURCHARGED	
1.002	3	11	117.412	0.924	0.000	0.07	9.2	SURCHARGED	
1.003	4	11	117.408	1.061	0.000	0.16	27.9	SURCHARGED	
2.000	5	27	118.435	-0.240	0.000	0.09	10.2	OK	
2.001	6	27	118.254	-0.207	0.000	0.21	21.8	OK	
2.002	6	27	117.999	-0.214	0.000	0.18	24.9	OK	
2.003	8	11	117.836	0.488	0.000	0.13	30.8	SURCHARGED	
3.000	9.1	27	118.279	-0.146	0.000	0.27	14.2	OK	
3.001	9	11	118.104	0.959	0.000	0.16	13.2	FLOOD RISK	
3.002	10	11	118.093	1.110	0.000	0.16	17.5	FLOOD RISK	
3.003	11	11	118.083	1.201	0.000	0.19	33.7	SURCHARGED	
4.000	12	11	118.038	0.752	0.000	0.11	11.5	SURCHARGED	
3.004	13	11	118.032	1.272	0.000	0.14	44.6	SURCHARGED	
3.005	14	11	117.936	1.383	0.000	0.25	61.1	SURCHARGED	
3.006	15	11	117.827	1.362	0.000	0.28	62.6	SURCHARGED	
2.004	16	11	117.823	1.380	0.000	0.26	91.9	SURCHARGED	
2.005	17	11	117.811	1.458	0.000	0.25	104.7	SURCHARGED	
5.000	18	11	117.673	0.786	0.000	0.05	6.2	SURCHARGED	
2.006	19	11	117.669	1.490	0.000	0.28	114.8	SURCHARGED	
2.007	20	11	117.527	1.520	0.000	0.30	120.8	SURCHARGED	
1.004	21	11	117.392	1.544	0.000	0.42	145.8	SURCHARGED	

M-EC		Page 356
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.005	22	11	117.383	1.596	0.000	0.27	166.4	SURCHARGED
6.000	23	11	117.436	0.506	0.000	0.21	9.2	SURCHARGED
6.001	24	11	117.422	0.729	0.000	0.24	8.8	SURCHARGED
6.002	25	11	117.416	0.791	0.000	0.19	14.0	SURCHARGED
6.003	26	11	117.400	1.085	0.000	0.29	17.6	SURCHARGED
6.004	27	11	117.392	1.136	0.000	0.21	25.9	SURCHARGED
6.005	28	11	117.375	1.392	0.000	0.11	25.3	SURCHARGED
1.006	29	11	117.367	1.737	0.000	0.25	205.9	SURCHARGED
7.000	30	27	118.095	-0.165	0.000	0.16	6.3	OK
7.001	31	27	117.921	-0.174	0.000	0.12	14.2	OK
1.007	8	11	117.186	1.845	0.000	0.30	221.6	SURCHARGED
8.000	60	11	117.038	0.182	0.000	0.11	4.2	SURCHARGED
8.001	61	11	117.032	0.348	0.000	0.05	4.9	SURCHARGED
8.002	35	11	117.028	0.600	0.000	0.03	6.6	SURCHARGED
1.008	10	11	117.024	1.945	0.000	0.68	225.1	SURCHARGED
9.000	62	27	119.087	-0.213	0.000	0.19	15.5	OK
10.000	40	27	118.861	-0.107	0.000	0.74	45.6	OK
9.001	63	27	118.768	-0.211	0.000	0.40	67.2	OK
9.002	64	27	118.251	-0.267	0.000	0.19	85.2	OK
9.003	148	11	117.169	1.903	0.000	0.34	86.1	SURCHARGED
1.009	11	11	117.014	1.954	0.000	0.43	314.2	SURCHARGED
1.010	12	11	116.995	2.019	0.000	0.85	318.6	SURCHARGED
1.011	13	11	116.982	2.028	0.000	0.74	320.2	SURCHARGED
1.012	14	11	116.965	2.044	0.000	0.34	321.7	SURCHARGED
1.013	15	11	116.953	2.083	0.000	0.70	320.9	SURCHARGED
1.014	16	11	116.941	2.094	0.000	0.35	320.1	SURCHARGED
11.000	TWC16	27	117.683	-0.158	0.000	0.20	19.2	OK
11.001	TWC17	11	116.942	1.282	0.000	0.15	18.4	SURCHARGED
1.015	17	11	116.929	2.059	0.000	0.23	335.7	SURCHARGED
1.016	18	12	116.917	2.150	0.000	0.25	334.8	SURCHARGED
12.000	TWC1	27	117.638	-0.163	0.000	0.17	6.4	OK
12.001	TWC2	27	117.485	-0.151	0.000	0.24	9.2	OK
12.002	TWC3	27	117.262	-0.108	0.000	0.53	18.3	OK
12.003	TWC4	27	117.192	-0.105	0.000	0.55	18.3	OK
13.000	TWC5	27	118.147	-0.143	0.000	0.29	11.0	OK
13.001	TWC6	27	117.960	-0.108	0.000	0.53	19.8	OK
13.002	TWC7	27	117.765	-0.133	0.000	0.35	25.0	OK
12.004	TWC8	27	117.066	-0.176	0.000	0.50	48.2	OK
12.005	TWC9	27	117.002	-0.166	0.000	0.60	52.9	OK
12.006	TWC10	18	116.935	-0.185	0.000	0.34	54.7	OK
1.017	TWC11	12	116.906	2.239	0.000	0.27	387.8	SURCHARGED
1.018	19	12	116.895	2.302	0.000	0.19	386.8	SURCHARGED
14.000	TWC12	27	117.232	-0.177	0.000	0.10	3.9	OK
14.001	TWC13	27	117.062	-0.190	0.000	0.06	7.2	OK
14.002	TWC14	12	116.888	0.609	0.000	0.18	14.0	SURCHARGED
1.019	TWC15	12	116.884	2.556	0.000	0.32	399.0	SURCHARGED
15.000	65	24	117.179	-0.190	0.000	0.23	15.6	OK
16.000	136	27	118.032	-0.182	0.000	0.08	5.0	OK
16.001	137	27	117.728	-0.179	0.000	0.09	5.3	OK

M-EC		Page 357
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
16.002	138	27	117.473	-0.246	0.000	0.07	9.6	OK
15.001	66	14	117.163	-0.023	0.000	0.28	33.3	OK
15.002	67	12	117.106	0.062	0.000	0.33	37.5	SURCHARGED
17.000	9	27	117.307	-0.277	0.000	0.02	1.3	OK
17.001	75	27	117.165	-0.232	0.000	0.12	8.9	OK
17.002	76	11	117.075	-0.145	0.000	0.04	17.0	OK
15.003	68	11	117.073	0.128	0.000	0.25	60.9	SURCHARGED
15.004	69	11	117.023	0.206	0.000	0.23	71.3	SURCHARGED
15.005	70	11	117.013	0.285	0.000	0.25	71.1	SURCHARGED
15.006	71	11	117.005	0.331	0.000	0.26	82.1	SURCHARGED
18.000	147	11	117.019	0.048	0.000	0.08	3.1	SURCHARGED
18.001	112	11	117.016	0.169	0.000	0.14	7.2	SURCHARGED
18.002	113	11	117.012	0.209	0.000	0.07	9.1	SURCHARGED
19.000	115	27	117.299	-0.195	0.000	0.04	2.0	OK
19.001	116	27	117.046	-0.184	0.000	0.08	5.8	OK
18.003	77	11	117.009	0.259	0.000	0.13	16.1	SURCHARGED
20.000	134	27	117.249	-0.183	0.000	0.08	6.8	OK
18.004	135	11	117.005	0.305	0.000	0.16	27.4	SURCHARGED
18.005	78	11	117.000	0.355	0.000	0.17	30.2	SURCHARGED
15.007	72	11	116.994	0.396	0.000	0.40	115.0	SURCHARGED
15.008	73	11	116.971	0.517	0.000	0.56	119.9	SURCHARGED
15.009	74	11	116.955	0.544	0.000	0.73	118.9	SURCHARGED
15.010	98	11	116.941	0.556	0.000	0.43	115.2	SURCHARGED
15.011	99	12	116.921	0.638	0.000	0.40	113.9	SURCHARGED
15.012	101	12	116.894	0.795	0.000	0.42	115.0	SURCHARGED
21.000	142	27	117.126	-0.163	0.000	0.17	7.9	OK
21.001	143	11	117.066	0.199	0.000	0.20	11.8	SURCHARGED
22.000	118	11	117.190	-0.116	0.000	0.02	0.6	OK
22.001	119	11	117.189	-0.031	0.000	0.11	3.6	OK
22.002	120	11	117.186	0.025	0.000	0.18	10.9	SURCHARGED
23.000	129	11	117.175	0.298	0.000	0.07	6.1	SURCHARGED
23.001	130	11	117.171	0.429	0.000	0.07	7.0	SURCHARGED
22.003	121	11	117.166	0.672	0.000	0.35	22.4	SURCHARGED
24.000	131	12	117.199	0.121	0.000	0.25	10.6	SURCHARGED
24.001	132	11	117.181	0.399	0.000	0.51	13.9	SURCHARGED
24.002	133	11	117.168	0.428	0.000	0.13	16.1	SURCHARGED
22.004	122	10	117.158	0.734	0.000	0.22	40.2	SURCHARGED
22.005	123	9	117.142	0.813	0.000	0.30	46.0	SURCHARGED
25.000	139	11	117.130	0.244	0.000	0.27	7.4	SURCHARGED
25.001	140	11	117.121	0.347	0.000	0.27	16.5	SURCHARGED
22.006	124	9	117.101	0.839	0.000	0.43	64.5	SURCHARGED
22.007	125	10	117.060	0.854	0.000	0.23	63.2	SURCHARGED
22.008	126	10	117.053	0.894	0.000	0.12	66.3	SURCHARGED
22.009	127	10	117.048	0.985	0.000	0.27	65.4	SURCHARGED
21.002	149	10	117.043	1.028	0.000	0.10	76.4	SURCHARGED
1.020	20	12	116.871	3.317	0.000	6.48	429.3	SURCHARGED
1.021	108	14	115.917	2.372	0.000	1.71	429.5	SURCHARGED
1.022	21	14	115.622	2.213	0.000	1.69	430.2	SURCHARGED
1.023	22	18	115.215	1.994	0.000	1.76	430.7	SURCHARGED

M-EC		Page 358
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 360 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	27	119.327	-0.611	0.000	0.02		14.5	OK
26.001	90	27	119.001	-0.606	0.000	0.02		17.2	OK
27.000	200	27	119.560	-0.256	0.000	0.05		8.3	OK
27.001	109	27	118.840	-0.439	0.000	0.06		9.3	OK
26.002	91	27	118.602	-0.646	0.000	0.05		26.4	OK
28.000	TWD27	27	119.388	-0.229	0.000	0.13		16.8	OK
26.003	91A	27	118.468	-0.694	0.000	0.06		46.5	OK
26.004	92	27	118.396	-0.668	0.000	0.08		53.0	OK
26.005	93	27	118.319	-0.684	0.000	0.07		53.0	OK
29.000	TWD29	27	119.410	-0.155	0.000	0.21		7.7	OK
29.001	TWD30	27	119.248	-0.210	0.000	0.20		12.7	OK
29.002	TWD31	27	119.111	-0.237	0.000	0.10		17.1	OK
26.006	94	27	118.209	-0.657	0.000	0.09		70.7	OK
26.007	95	27	118.100	-0.655	0.000	0.09		72.8	OK
30.000	201	27	119.214	-0.227	0.000	0.13		11.3	OK
30.001	202	27	118.982	-0.208	0.000	0.20		15.3	OK
30.002	203	27	118.924	-0.177	0.000	0.35		26.4	OK
30.003	204	27	118.704	-0.279	0.000	0.15		31.1	OK
30.004	117	27	118.441	-0.230	0.000	0.32		33.1	OK
26.008	95A	27	117.990	-0.621	0.000	0.14		112.0	OK
26.009	96	27	117.796	-0.637	0.000	0.12		111.9	OK
26.010	97	27	117.387	-0.651	0.000	0.10		111.9	OK
31.000	121	27	117.043	-0.577	0.000	0.20		71.8	OK
32.000	TWD4	27	120.082	-0.179	0.000	0.09		4.5	OK
32.001	TWD5	27	119.885	-0.164	0.000	0.17		9.8	OK
33.000	TWD16	27	119.513	-0.198	0.000	0.25		16.4	OK
32.002	TWD6	27	119.343	-0.245	0.000	0.26		28.3	OK
34.000	TWD17	27	119.533	-0.174	0.000	0.12		6.1	OK
35.000	TWD18	27	119.461	-0.177	0.000	0.10		4.3	OK
32.003	TWD7	27	119.192	-0.248	0.000	0.25		41.5	OK
32.004	TWD8	27	118.685	-0.298	0.000	0.25		51.2	OK
32.005	TWD9	27	118.576	-0.275	0.000	0.32		54.6	OK
32.006	TWD10	27	118.527	-0.274	0.000	0.33		55.2	OK
36.000	TWD19	27	119.570	-0.151	0.000	0.24		16.3	OK
32.007	TWD11	27	117.417	-0.304	0.000	0.49		73.7	OK
37.000	TWD20	27	119.322	-0.164	0.000	0.16		6.2	OK
37.001	TWD21	27	119.057	-0.214	0.000	0.18		12.4	OK
37.002	TWD22	27	118.870	-0.196	0.000	0.26		17.6	OK
37.003	TWD23	27	118.603	-0.257	0.000	0.22		23.0	OK
37.004	TWD24	27	118.500	-0.286	0.000	0.13		26.8	OK
37.005	TWD25	27	118.014	-0.284	0.000	0.13		30.5	OK
32.008	TWD12	26	117.301	-0.399	0.000	0.31		110.2	OK
38.000	TWD26	27	119.267	-0.183	0.000	0.08		8.0	OK
32.009	TWD13	26	117.189	-0.426	0.000	0.28		121.6	OK
32.010	TWD14	26	117.131	-0.416	0.000	0.31		125.9	OK
32.011	TWD15	26	117.083	-0.412	0.000	0.42		131.4	OK
26.011	98	26	116.802	-0.786	0.000	0.14		314.8	OK
26.012	99	26	116.279	-0.741	0.000	0.19		314.6	OK
26.013	100	26	116.142	-0.587	0.000	0.40		314.6	OK

M-EC		Page 359
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 360 minute 100 year Winter I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	20	115.016	1.884	0.000	2.42	627.2	SURCHARGED
1.025	24	20	113.812	0.886	0.000	2.45	627.2	SURCHARGED
1.026	25	21	112.991	0.202	0.000	0.98	627.3	SURCHARGED
39.000	79	27	121.667	-0.506	0.000	0.01	3.5	OK
39.001	80	27	121.284	-0.475	0.000	0.02	9.6	OK
39.002	81	27	120.720	-0.607	0.000	0.02	11.9	OK
40.000	130	26	121.027	-0.174	0.000	0.12	4.0	OK
41.000	BAR1	27	121.699	-0.106	0.000	0.19	5.5	OK
41.001	131	27	120.879	-0.295	0.000	0.10	9.8	OK
39.003	81A	27	120.551	-0.583	0.000	0.05	27.5	OK
42.000	133	26	120.684	-0.262	0.000	0.04	2.2	OK
39.004	82	27	120.279	-0.626	0.000	0.07	34.9	OK
39.005	83	27	120.197	-0.638	0.000	0.05	34.8	OK
43.000	BAR2	27	121.527	-0.102	0.000	0.23	7.2	OK
43.001	136	27	120.416	-0.276	0.000	0.16	11.6	OK
39.006	83A	27	120.063	-0.607	0.000	0.08	49.9	OK
44.000	206	27	120.506	-0.351	0.000	0.07	7.5	OK
44.001	207	26	120.484	-0.335	0.000	0.08	9.4	OK
44.002	208	26	120.467	-0.309	0.000	0.12	16.1	OK
44.003	209	26	120.438	-0.266	0.000	0.17	16.1	OK
45.000	210	27	120.907	-0.178	0.000	0.10	4.3	OK
45.001	211	27	120.710	-0.232	0.000	0.12	7.9	OK
45.002	212	27	120.465	-0.291	0.000	0.11	11.8	OK
44.004	213	26	120.431	-0.251	0.000	0.35	36.5	OK
44.005	214	26	120.393	-0.252	0.000	0.28	38.2	OK
44.006	215	26	120.348	-0.232	0.000	0.47	44.7	OK
44.007	138	26	120.290	-0.267	0.000	0.35	44.6	OK
39.007	84	26	119.934	-0.591	0.000	0.17	103.4	OK
46.000	BAR4	27	121.563	-0.146	0.000	0.27	10.1	OK
46.001	BAR5	27	121.361	-0.127	0.000	0.40	14.2	OK
47.000	BAR6	27	122.051	-0.100	0.000	0.24	4.1	OK
47.001	BAR7	27	121.723	-0.148	0.000	0.25	9.3	OK
47.002	BAR8	27	121.573	-0.154	0.000	0.22	13.0	OK
46.002	BAR9	27	121.227	-0.152	0.000	0.49	30.2	OK
46.003	BAR10	27	121.099	-0.202	0.000	0.23	38.2	OK
46.004	140	27	120.218	-0.277	0.000	0.32	38.2	OK
39.008	85	26	119.881	-0.587	0.000	0.18	141.5	OK
39.009	86	26	119.746	-0.588	0.000	0.18	147.3	OK
48.000	BAR3	27	120.836	-0.112	0.000	0.15	4.8	OK
48.001	143	27	119.814	-0.360	0.000	0.09	10.1	OK
49.000	216	27	120.429	-0.241	0.000	0.09	15.0	OK
49.001	144	27	119.848	-0.347	0.000	0.12	16.0	OK
39.010	87	26	119.509	-0.643	0.000	0.18	173.2	OK
39.011	88	26	119.387	-0.620	0.000	0.21	202.5	OK
39.012	103	26	119.242	-0.609	0.000	0.23	219.1	OK
50.000	BAR11	27	121.350	-0.095	0.000	0.29	5.0	OK
50.001	BAR12	27	120.986	-0.152	0.000	0.23	12.0	OK
51.000	BAR13	27	120.790	-0.178	0.000	0.06	2.0	OK
50.002	BAR14	27	120.780	-0.139	0.000	0.31	16.7	OK

M-EC		Page 360
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 360 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	27	120.854	-0.097	0.000	0.28		4.6	OK
52.001	BAR16	27	120.567	-0.159	0.000	0.19		8.3	OK
50.003	BAR17	27	120.456	-0.162	0.000	0.44		26.9	OK
50.004	BAR18	27	120.386	-0.155	0.000	0.47		29.9	OK
50.005	BAR19	27	120.238	-0.211	0.000	0.19		33.7	OK
50.006	149	27	119.411	-0.314	0.000	0.20		33.7	OK
53.000	TWD1	27	120.434	-0.180	0.000	0.09		3.4	OK
54.000	TWD3	27	120.681	-0.201	0.000	0.02		2.1	OK
53.001	TWD2	27	120.072	-0.174	0.000	0.12		10.5	OK
39.013	104	26	119.077	-0.593	0.000	0.39		263.0	OK
39.014	104A	26	118.943	-0.692	0.000	0.23		264.4	OK
55.000	BAR20	27	121.405	-0.088	0.000	0.36		6.4	OK
55.001	BAR21	27	120.899	-0.154	0.000	0.22		11.9	OK
56.000	BAR22	27	120.461	-0.144	0.000	0.28		10.3	OK
56.001	BAR23	27	120.343	-0.126	0.000	0.41		13.3	OK
55.002	BAR24	27	120.230	-0.184	0.000	0.32		26.1	OK
55.003	BAR25	27	119.956	-0.238	0.000	0.29		30.9	OK
55.004	BAR26	27	119.826	-0.290	0.000	0.12		36.8	OK
39.015	105	26	118.774	-0.700	0.000	0.22		301.2	OK
39.016	106	26	118.609	-1.538	0.000	0.04		301.0	OK
39.017	107	24	115.944	-0.603	0.000	0.16		300.5	OK
1.027	26	21	112.313	-0.595	0.000	0.25		925.2	OK
1.028	27	21	109.480	-0.267	0.000	0.45		925.3	FLOOD RISK*
1.029	28	21	106.540	-0.651	0.000	0.20		924.2	OK
1.030	29	21	97.602	-0.875	0.000	0.15		924.3	OK
1.031	30	21	93.055	-0.327	0.000	0.45		924.3	OK
1.032	31	21	91.983	-0.267	0.000	0.59		923.1	FLOOD RISK*
1.033	32	4	91.808	-0.315	0.000	0.29		921.8	OK
1.034	33	4	91.796	1.523	0.000	1.22		297.2	SURCHARGED*
57.000	108	16	91.550	-0.336	0.000	0.24		390.9	OK
57.001	109	10	91.550	-0.336	0.000	0.20		386.7	OK
57.002	110	4	91.550	-0.336	0.000	0.15		376.8	OK
1.035	109	4	91.551	1.685	0.000	0.26		63.1	SURCHARGED*
1.036	34	15	86.650	0.000	0.000	0.76		63.1	SURCHARGED*



M-EC		Page 361
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 480 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON


Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	1	18	116.937	0.082	0.000	0.08	6.1	SURCHARGED	
1.001	2	18	116.932	0.223	0.000	0.09	7.9	SURCHARGED	
1.002	3	18	116.925	0.437	0.000	0.06	7.8	SURCHARGED	
1.003	4	18	116.921	0.574	0.000	0.13	23.1	SURCHARGED	
2.000	5	30	118.427	-0.248	0.000	0.07	8.1	OK	
2.001	6	30	118.243	-0.218	0.000	0.17	17.4	OK	
2.002	6	30	117.989	-0.224	0.000	0.15	19.9	OK	
2.003	8	18	117.348	0.000	0.000	0.10	24.6	SURCHARGED	
3.000	9.1	30	118.271	-0.154	0.000	0.22	11.3	OK	
3.001	9	18	117.488	0.343	0.000	0.14	10.9	SURCHARGED	
3.002	10	18	117.476	0.493	0.000	0.13	13.9	SURCHARGED	
3.003	11	18	117.468	0.586	0.000	0.15	26.6	SURCHARGED	
4.000	12	17	117.462	0.176	0.000	0.09	9.1	SURCHARGED	
3.004	13	17	117.457	0.697	0.000	0.11	35.0	SURCHARGED	
3.005	14	17	117.447	0.894	0.000	0.20	48.6	SURCHARGED	
3.006	15	18	117.339	0.874	0.000	0.22	50.0	SURCHARGED	
2.004	16	18	117.335	0.892	0.000	0.21	74.5	SURCHARGED	
2.005	17	18	117.324	0.971	0.000	0.20	85.1	SURCHARGED	
5.000	18	18	117.187	0.300	0.000	0.04	5.1	SURCHARGED	
2.006	19	18	117.183	1.004	0.000	0.23	93.9	SURCHARGED	
2.007	20	18	117.042	1.035	0.000	0.27	106.1	SURCHARGED	
1.004	21	18	116.905	1.057	0.000	0.35	121.9	SURCHARGED	

M-EC		Page 362
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 480 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.005	22	18	116.897	1.110	0.000	0.22	137.9	SURCHARGED
6.000	23	18	116.947	0.017	0.000	0.17	7.6	SURCHARGED
6.001	24	18	116.934	0.241	0.000	0.20	7.5	SURCHARGED
6.002	25	18	116.928	0.303	0.000	0.16	11.9	SURCHARGED
6.003	26	18	116.913	0.598	0.000	0.25	15.3	SURCHARGED
6.004	27	18	116.906	0.650	0.000	0.17	21.5	SURCHARGED
6.005	28	18	116.889	0.906	0.000	0.09	21.0	SURCHARGED
1.006	29	18	116.882	1.252	0.000	0.20	170.3	SURCHARGED
7.000	30	30	118.088	-0.172	0.000	0.13	5.0	OK
7.001	31	30	117.916	-0.179	0.000	0.10	11.3	OK
1.007	8	18	116.700	1.359	0.000	0.24	182.6	SURCHARGED
8.000	60	30	116.676	-0.180	0.000	0.09	3.4	OK
8.001	61	18	116.544	-0.140	0.000	0.04	3.9	OK
8.002	35	18	116.541	0.113	0.000	0.02	5.6	SURCHARGED
1.008	10	18	116.537	1.458	0.000	0.56	186.0	SURCHARGED
9.000	62	30	119.077	-0.223	0.000	0.15	12.3	OK
10.000	40	30	118.834	-0.134	0.000	0.59	36.3	OK
9.001	63	30	118.749	-0.230	0.000	0.32	53.5	OK
9.002	64	30	118.238	-0.280	0.000	0.15	67.8	OK
9.003	148	18	116.683	1.417	0.000	0.27	69.0	SURCHARGED
1.009	11	18	116.528	1.468	0.000	0.35	256.6	SURCHARGED
1.010	12	18	116.510	1.534	0.000	0.70	259.9	SURCHARGED
1.011	13	19	116.497	1.543	0.000	0.60	260.6	SURCHARGED
1.012	14	19	116.481	1.560	0.000	0.28	261.3	SURCHARGED
1.013	15	19	116.470	1.600	0.000	0.57	260.1	SURCHARGED
1.014	16	19	116.459	1.612	0.000	0.28	260.3	SURCHARGED
11.000	TWC16	30	117.675	-0.166	0.000	0.16	15.3	OK
11.001	TWC17	19	116.460	0.800	0.000	0.12	15.0	SURCHARGED
1.015	17	19	116.447	1.577	0.000	0.19	273.8	SURCHARGED
1.016	18	19	116.436	1.669	0.000	0.20	273.9	SURCHARGED
12.000	TWC1	30	117.631	-0.170	0.000	0.14	5.1	OK
12.001	TWC2	30	117.477	-0.159	0.000	0.19	7.3	OK
12.002	TWC3	30	117.247	-0.123	0.000	0.42	14.6	OK
12.003	TWC4	30	117.176	-0.121	0.000	0.44	14.6	OK
13.000	TWC5	30	118.138	-0.152	0.000	0.23	8.8	OK
13.001	TWC6	30	117.945	-0.123	0.000	0.42	15.8	OK
13.002	TWC7	30	117.754	-0.144	0.000	0.28	19.9	OK
12.004	TWC8	30	117.039	-0.203	0.000	0.40	38.4	OK
12.005	TWC9	30	116.975	-0.193	0.000	0.48	42.1	OK
12.006	TWC10	30	116.877	-0.243	0.000	0.27	43.5	OK
1.017	TWC11	19	116.425	1.758	0.000	0.22	315.0	SURCHARGED
1.018	19	19	116.413	1.820	0.000	0.15	315.1	SURCHARGED
14.000	TWC12	30	117.227	-0.182	0.000	0.08	3.1	OK
14.001	TWC13	30	117.058	-0.194	0.000	0.05	5.8	OK
14.002	TWC14	19	116.407	0.128	0.000	0.15	11.5	SURCHARGED
1.019	TWC15	19	116.402	2.074	0.000	0.26	325.7	SURCHARGED
15.000	65	30	117.154	-0.215	0.000	0.18	12.4	OK
16.000	136	30	118.027	-0.187	0.000	0.07	3.9	OK
16.001	137	30	117.722	-0.185	0.000	0.07	4.2	OK

M-EC		Page 363
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 480 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	30	117.466	-0.253	0.000	0.06		7.6	OK
15.001	66	22	116.987	-0.199	0.000	0.23		26.7	OK
15.002	67	19	116.960	-0.084	0.000	0.27		30.1	OK
17.000	9	30	117.302	-0.282	0.000	0.01		1.1	OK
17.001	75	30	117.158	-0.239	0.000	0.09		7.1	OK
17.002	76	17	116.920	-0.300	0.000	0.03		13.5	OK
15.003	68	15	116.918	-0.027	0.000	0.21		50.0	OK
15.004	69	21	116.817	0.000	0.000	0.20		62.0	OK
15.005	70	18	116.728	0.000	0.000	0.22		61.4	OK
15.006	71	19	116.674	0.000	0.000	0.23		70.6	OK
18.000	147	30	116.783	-0.188	0.000	0.06		2.5	OK
18.001	112	21	116.726	-0.121	0.000	0.11		5.8	OK
18.002	113	21	116.723	-0.080	0.000	0.06		7.5	OK
19.000	115	30	117.296	-0.198	0.000	0.03		1.6	OK
19.001	116	30	117.040	-0.190	0.000	0.06		4.6	OK
18.003	77	21	116.719	-0.031	0.000	0.11		13.5	OK
20.000	134	30	117.244	-0.188	0.000	0.06		5.4	OK
18.004	135	21	116.700	0.000	0.000	0.14		23.4	OK
18.005	78	20	116.645	0.000	0.000	0.15		26.5	OK
15.007	72	20	116.598	0.000	0.000	0.34		98.1	OK
15.008	73	21	116.482	0.028	0.000	0.50		106.7	SURCHARGED
15.009	74	20	116.468	0.057	0.000	0.70		113.8	SURCHARGED
15.010	98	20	116.456	0.071	0.000	0.44		118.0	SURCHARGED
15.011	99	20	116.436	0.153	0.000	0.45		127.4	SURCHARGED
15.012	101	20	116.411	0.312	0.000	0.52		143.6	SURCHARGED
21.000	142	30	117.119	-0.170	0.000	0.14		6.3	OK
21.001	143	30	116.701	-0.166	0.000	0.16		9.4	OK
22.000	118	30	117.095	-0.211	0.000	0.01		0.4	OK
22.001	119	30	117.041	-0.179	0.000	0.09		2.9	OK
22.002	120	30	116.992	-0.169	0.000	0.14		8.7	OK
23.000	129	19	116.707	-0.170	0.000	0.06		4.9	OK
23.001	130	18	116.704	-0.038	0.000	0.06		6.0	OK
22.003	121	18	116.701	0.207	0.000	0.29		18.7	SURCHARGED
24.000	131	30	116.922	-0.157	0.000	0.20		8.5	OK
24.001	132	24	116.713	-0.070	0.000	0.41		11.1	OK
24.002	133	17	116.703	-0.037	0.000	0.10		13.0	OK
22.004	122	16	116.695	0.270	0.000	0.18		33.5	SURCHARGED
22.005	123	15	116.685	0.356	0.000	0.25		38.1	SURCHARGED
25.000	139	30	116.732	-0.154	0.000	0.22		5.9	OK
25.001	140	23	116.651	-0.123	0.000	0.21		13.2	OK
22.006	124	17	116.630	0.368	0.000	0.35		53.2	SURCHARGED
22.007	125	17	116.578	0.372	0.000	0.19		52.1	SURCHARGED
22.008	126	17	116.571	0.412	0.000	0.10		55.5	SURCHARGED
22.009	127	17	116.566	0.503	0.000	0.22		55.0	SURCHARGED
21.002	149	17	116.561	0.546	0.000	0.08		66.2	SURCHARGED
1.020	20	19	116.389	2.835	0.000	6.00		397.7	SURCHARGED
1.021	108	22	115.459	1.914	0.000	1.59		397.9	SURCHARGED
1.022	21	23	115.178	1.769	0.000	1.56		398.1	SURCHARGED
1.023	22	23	114.822	1.601	0.000	1.63		398.6	SURCHARGED

M-EC		Page 364
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	


Summary Wizard of 480 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow Flow (l/s)	Pipe Status
26.000	89	30	119.314	-0.624	0.000	0.02	11.5	OK
26.001	90	30	118.989	-0.618	0.000	0.02	13.7	OK
27.000	200	30	119.555	-0.261	0.000	0.04	6.6	OK
27.001	109	30	118.830	-0.449	0.000	0.05	7.4	OK
26.002	91	30	118.591	-0.657	0.000	0.04	21.0	OK
28.000	TWD27	30	119.381	-0.236	0.000	0.10	13.4	OK
26.003	91A	30	118.453	-0.709	0.000	0.05	37.0	OK
26.004	92	30	118.375	-0.689	0.000	0.07	42.2	OK
26.005	93	30	118.302	-0.701	0.000	0.05	42.2	OK
29.000	TWD29	30	119.402	-0.163	0.000	0.17	6.1	OK
29.001	TWD30	30	119.237	-0.221	0.000	0.16	10.1	OK
29.002	TWD31	30	119.103	-0.245	0.000	0.08	13.6	OK
26.006	94	30	118.188	-0.678	0.000	0.07	56.3	OK
26.007	95	30	118.079	-0.676	0.000	0.08	57.9	OK
30.000	201	30	119.206	-0.235	0.000	0.11	9.0	OK
30.001	202	30	118.970	-0.220	0.000	0.16	12.2	OK
30.002	203	30	118.909	-0.192	0.000	0.28	21.0	OK
30.003	204	30	118.693	-0.290	0.000	0.12	24.7	OK
30.004	117	30	118.423	-0.248	0.000	0.25	26.3	OK
26.008	95A	30	117.969	-0.642	0.000	0.11	89.1	OK
26.009	96	30	117.778	-0.655	0.000	0.09	89.1	OK
26.010	97	30	117.368	-0.670	0.000	0.08	89.1	OK
31.000	121	30	117.013	-0.607	0.000	0.16	57.1	OK
32.000	TWD4	30	120.076	-0.185	0.000	0.07	3.6	OK
32.001	TWD5	30	119.878	-0.171	0.000	0.13	7.8	OK
33.000	TWD16	30	119.502	-0.209	0.000	0.20	13.0	OK
32.002	TWD6	30	119.329	-0.259	0.000	0.21	22.5	OK
34.000	TWD17	30	119.528	-0.179	0.000	0.09	4.9	OK
35.000	TWD18	30	119.456	-0.182	0.000	0.08	3.4	OK
32.003	TWD7	30	119.178	-0.262	0.000	0.20	33.0	OK
32.004	TWD8	30	118.669	-0.314	0.000	0.20	40.7	OK
32.005	TWD9	30	118.555	-0.296	0.000	0.26	43.5	OK
32.006	TWD10	30	118.506	-0.295	0.000	0.26	44.0	OK
36.000	TWD19	30	119.562	-0.159	0.000	0.19	13.0	OK
32.007	TWD11	30	117.380	-0.341	0.000	0.39	58.6	OK
37.000	TWD20	30	119.315	-0.171	0.000	0.13	4.9	OK
37.001	TWD21	30	119.047	-0.224	0.000	0.15	9.9	OK
37.002	TWD22	30	118.858	-0.208	0.000	0.21	14.0	OK
37.003	TWD23	30	118.589	-0.271	0.000	0.17	18.3	OK
37.004	TWD24	30	118.491	-0.295	0.000	0.10	21.4	OK
37.005	TWD25	30	118.004	-0.294	0.000	0.11	24.2	OK
32.008	TWD12	30	117.266	-0.434	0.000	0.25	87.7	OK
38.000	TWD26	30	119.262	-0.188	0.000	0.06	6.4	OK
32.009	TWD13	30	117.150	-0.465	0.000	0.22	96.9	OK
32.010	TWD14	30	117.091	-0.456	0.000	0.24	100.5	OK
32.011	TWD15	30	117.043	-0.452	0.000	0.33	104.9	OK
26.011	98	30	116.774	-0.814	0.000	0.11	251.1	OK
26.012	99	30	116.241	-0.779	0.000	0.15	251.0	OK
26.013	100	30	116.087	-0.642	0.000	0.32	250.3	OK

M-EC		Page 365
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 480 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	23	114.643	1.511	0.000	2.26	585.8	SURCHARGED
1.025	24	23	113.592	0.666	0.000	2.29	585.6	SURCHARGED
1.026	25	23	112.873	0.084	0.000	0.92	585.5	SURCHARGED
39.000	79	30	121.663	-0.510	0.000	0.01	2.8	OK
39.001	80	30	121.273	-0.486	0.000	0.02	7.6	OK
39.002	81	30	120.706	-0.621	0.000	0.02	9.5	OK
40.000	130	30	121.022	-0.179	0.000	0.09	3.2	OK
41.000	BAR1	30	121.694	-0.111	0.000	0.15	4.4	OK
41.001	131	30	120.871	-0.303	0.000	0.08	7.8	OK
39.003	81A	30	120.542	-0.592	0.000	0.04	21.9	OK
42.000	133	30	120.680	-0.266	0.000	0.03	1.8	OK
39.004	82	30	120.265	-0.640	0.000	0.05	27.7	OK
39.005	83	30	120.185	-0.650	0.000	0.04	27.7	OK
43.000	BAR2	30	121.522	-0.107	0.000	0.18	5.7	OK
43.001	136	30	120.405	-0.287	0.000	0.12	9.2	OK
39.006	83A	30	120.044	-0.626	0.000	0.07	39.7	OK
44.000	206	30	120.492	-0.365	0.000	0.06	6.0	OK
44.001	207	30	120.467	-0.352	0.000	0.06	7.5	OK
44.002	208	30	120.446	-0.330	0.000	0.09	12.8	OK
44.003	209	30	120.414	-0.290	0.000	0.14	12.8	OK
45.000	210	30	120.901	-0.184	0.000	0.08	3.4	OK
45.001	211	30	120.704	-0.238	0.000	0.09	6.3	OK
45.002	212	30	120.456	-0.300	0.000	0.09	9.4	OK
44.004	213	30	120.406	-0.276	0.000	0.28	29.1	OK
44.005	214	30	120.368	-0.278	0.000	0.23	30.5	OK
44.006	215	30	120.321	-0.259	0.000	0.38	35.6	OK
44.007	138	30	120.268	-0.289	0.000	0.28	35.6	OK
39.007	84	30	119.906	-0.619	0.000	0.14	82.4	OK
46.000	BAR4	30	121.554	-0.155	0.000	0.21	8.0	OK
46.001	BAR5	30	121.350	-0.138	0.000	0.32	11.3	OK
47.000	BAR6	30	122.045	-0.106	0.000	0.19	3.3	OK
47.001	BAR7	30	121.714	-0.157	0.000	0.20	7.4	OK
47.002	BAR8	30	121.565	-0.162	0.000	0.18	10.3	OK
46.002	BAR9	30	121.209	-0.170	0.000	0.39	24.1	OK
46.003	BAR10	30	121.088	-0.213	0.000	0.19	30.4	OK
46.004	140	30	120.198	-0.297	0.000	0.25	30.4	OK
39.008	85	30	119.852	-0.616	0.000	0.15	112.7	OK
39.009	86	30	119.718	-0.616	0.000	0.15	117.4	OK
48.000	BAR3	30	120.832	-0.116	0.000	0.12	3.8	OK
48.001	143	30	119.802	-0.372	0.000	0.07	8.0	OK
49.000	216	30	120.421	-0.249	0.000	0.07	12.0	OK
49.001	144	30	119.838	-0.357	0.000	0.09	12.7	OK
39.010	87	30	119.478	-0.674	0.000	0.14	138.1	OK
39.011	88	30	119.354	-0.653	0.000	0.17	161.5	OK
39.012	103	30	119.209	-0.642	0.000	0.18	174.8	OK
50.000	BAR11	30	121.343	-0.102	0.000	0.23	3.9	OK
50.001	BAR12	30	120.978	-0.160	0.000	0.19	9.5	OK
51.000	BAR13	30	120.783	-0.185	0.000	0.05	1.6	OK
50.002	BAR14	30	120.770	-0.149	0.000	0.25	13.3	OK

M-EC		Page 366
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1

Summary Wizard of 480 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	30	120.848	-0.103	0.000	0.22		3.7	OK
52.001	BAR16	30	120.559	-0.167	0.000	0.15		6.6	OK
50.003	BAR17	30	120.440	-0.178	0.000	0.35		21.4	OK
50.004	BAR18	30	120.368	-0.173	0.000	0.38		23.8	OK
50.005	BAR19	30	120.227	-0.222	0.000	0.15		26.8	OK
50.006	149	30	119.394	-0.331	0.000	0.16		26.8	OK
53.000	TWD1	30	120.428	-0.186	0.000	0.07		2.7	OK
54.000	TWD3	30	120.678	-0.204	0.000	0.02		1.7	OK
53.001	TWD2	30	120.067	-0.179	0.000	0.09		8.4	OK
39.013	104	30	119.022	-0.648	0.000	0.31		209.8	OK
39.014	104A	30	118.904	-0.731	0.000	0.19		210.7	OK
55.000	BAR20	30	121.398	-0.095	0.000	0.29		5.1	OK
55.001	BAR21	30	120.891	-0.162	0.000	0.17		9.5	OK
56.000	BAR22	30	120.452	-0.153	0.000	0.22		8.2	OK
56.001	BAR23	30	120.332	-0.137	0.000	0.32		10.6	OK
55.002	BAR24	30	120.216	-0.198	0.000	0.26		20.8	OK
55.003	BAR25	30	119.940	-0.254	0.000	0.23		24.6	OK
55.004	BAR26	30	119.818	-0.298	0.000	0.09		29.3	OK
39.015	105	30	118.733	-0.741	0.000	0.18		239.5	OK
39.016	106	30	118.561	-1.586	0.000	0.03		240.2	OK
39.017	107	30	115.896	-0.651	0.000	0.13		240.1	OK
1.027	26	23	112.277	-0.631	0.000	0.22		823.6	OK
1.028	27	23	109.449	-0.298	0.000	0.40		823.7	FLOOD RISK*
1.029	28	23	106.509	-0.682	0.000	0.18		823.5	OK
1.030	29	23	97.566	-0.911	0.000	0.14		823.1	OK
1.031	30	23	93.017	-0.365	0.000	0.40		822.9	OK
1.032	31	23	91.930	-0.320	0.000	0.52		822.7	OK
1.033	32	3	91.812	-0.311	0.000	0.26		821.7	OK
1.034	33	3	91.800	1.527	0.000	1.17		286.8	SURCHARGED*
57.000	108	10	91.657	-0.229	0.000	0.19		312.1	FLOOD RISK*
57.001	109	6	91.657	-0.229	0.000	0.16		306.5	FLOOD RISK*
57.002	110	3	91.657	-0.229	0.000	0.11		282.5	FLOOD RISK*
1.035	109	3	91.657	1.791	0.000	0.25		60.0	FLOOD RISK*
1.036	34	20	86.650	0.000	0.000	0.76		62.8	SURCHARGED*

M-EC		Page 367
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850

Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)      Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30


PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	39	116.596	-0.259	0.000	0.05	3.6	OK
1.001	2	39	116.453	-0.256	0.000	0.05	4.7	OK
1.002	3	39	116.160	-0.328	0.000	0.04	4.7	OK
1.003	4	39	116.041	-0.306	0.000	0.08	13.6	OK
2.000	5	39	118.414	-0.261	0.000	0.04	4.7	OK
2.001	6	39	118.223	-0.238	0.000	0.10	10.0	OK
2.002	6	39	117.971	-0.242	0.000	0.08	11.4	OK
2.003	8	39	117.095	-0.253	0.000	0.06	14.3	OK
3.000	9.1	39	118.252	-0.173	0.000	0.12	6.5	OK
3.001	9	39	116.902	-0.243	0.000	0.08	6.5	OK
3.002	10	39	116.679	-0.304	0.000	0.08	8.7	OK
3.003	11	39	116.524	-0.358	0.000	0.09	16.6	OK
4.000	12	39	117.094	-0.192	0.000	0.05	5.4	OK
3.004	13	39	116.326	-0.434	0.000	0.07	22.0	OK
3.005	14	39	116.149	-0.404	0.000	0.12	30.1	OK
3.006	15	39	116.012	-0.453	0.000	0.14	30.8	OK
2.004	16	39	115.986	-0.457	0.000	0.13	45.1	OK
2.005	17	39	115.892	-0.461	0.000	0.12	51.4	OK
5.000	18	39	116.686	-0.201	0.000	0.03	3.0	OK
2.006	19	39	115.725	-0.454	0.000	0.14	56.7	OK
2.007	20	39	115.561	-0.446	0.000	0.15	59.8	OK
1.004	21	39	115.434	-0.414	0.000	0.21	73.4	OK

M-EC		Page 368
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 100 year Winter I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.005	22	35	115.273	-0.514	0.000	0.13		83.2	OK
6.000	23	39	116.752	-0.178	0.000	0.10		4.4	OK
6.001	24	39	116.519	-0.174	0.000	0.12		4.4	OK
6.002	25	39	116.387	-0.238	0.000	0.10		7.1	OK
6.003	26	39	116.094	-0.221	0.000	0.16		9.7	OK
6.004	27	39	115.964	-0.292	0.000	0.11		14.0	OK
6.005	28	39	115.667	-0.316	0.000	0.06		14.0	OK
1.006	29	30	115.228	-0.402	0.000	0.12		103.8	OK
7.000	30	39	118.075	-0.185	0.000	0.07		2.9	OK
7.001	31	39	117.904	-0.191	0.000	0.05		6.5	OK
1.007	8	30	115.171	-0.170	0.000	0.15		110.3	OK
8.000	60	39	116.663	-0.193	0.000	0.05		1.9	OK
8.001	61	39	116.414	-0.270	0.000	0.02		2.2	OK
8.002	35	39	116.146	-0.282	0.000	0.01		3.2	OK
1.008	10	30	115.079	0.000	0.000	0.34		113.6	OK
9.000	62	39	119.059	-0.241	0.000	0.09		7.1	OK
10.000	40	39	118.788	-0.180	0.000	0.34		20.9	OK
9.001	63	39	118.712	-0.267	0.000	0.18		30.7	OK
9.002	64	39	118.216	-0.302	0.000	0.08		39.0	OK
9.003	148	29	115.077	-0.189	0.000	0.16		39.9	OK
1.009	11	31	115.060	0.000	0.000	0.21		155.3	OK
1.010	12	31	114.976	0.000	0.000	0.42		158.0	OK
1.011	13	29	114.954	0.000	0.000	0.37		159.3	OK
1.012	14	31	114.921	0.000	0.000	0.17		160.6	OK
1.013	15	29	114.888	0.018	0.000	0.35		160.7	SURCHARGED
1.014	16	29	114.879	0.032	0.000	0.17		160.7	SURCHARGED
11.000	TWC16	39	117.661	-0.180	0.000	0.09		8.8	OK
11.001	TWC17	39	115.474	-0.186	0.000	0.07		8.8	OK
1.015	17	31	114.870	0.000	0.000	0.12		166.7	OK
1.016	18	29	114.841	0.074	0.000	0.12		163.8	SURCHARGED
12.000	TWC1	39	117.618	-0.183	0.000	0.08		2.9	OK
12.001	TWC2	39	117.460	-0.176	0.000	0.11		4.2	OK
12.002	TWC3	39	117.220	-0.150	0.000	0.24		8.4	OK
12.003	TWC4	39	117.149	-0.148	0.000	0.25		8.4	OK
13.000	TWC5	39	118.119	-0.171	0.000	0.13		5.0	OK
13.001	TWC6	39	117.918	-0.150	0.000	0.24		9.1	OK
13.002	TWC7	39	117.733	-0.165	0.000	0.16		11.4	OK
12.004	TWC8	39	116.992	-0.250	0.000	0.23		22.1	OK
12.005	TWC9	39	116.926	-0.242	0.000	0.27		24.2	OK
12.006	TWC10	39	116.843	-0.277	0.000	0.15		25.0	OK
1.017	TWC11	29	114.828	0.161	0.000	0.13		187.2	SURCHARGED
1.018	19	29	114.798	0.205	0.000	0.09		186.6	SURCHARGED
14.000	TWC12	39	117.215	-0.194	0.000	0.05		1.8	OK
14.001	TWC13	39	117.051	-0.201	0.000	0.03		3.3	OK
14.002	TWC14	39	116.097	-0.182	0.000	0.08		6.6	OK
1.019	TWC15	29	114.794	0.466	0.000	0.15		191.8	SURCHARGED
15.000	65	39	117.133	-0.236	0.000	0.10		7.1	OK
16.000	136	39	118.017	-0.197	0.000	0.04		2.3	OK
16.001	137	39	117.712	-0.195	0.000	0.04		2.4	OK



M-EC		Page 369
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	39	117.455	-0.264	0.000	0.03		4.4	OK
15.001	66	39	116.900	-0.286	0.000	0.13		15.3	OK
15.002	67	39	116.766	-0.278	0.000	0.15		17.3	OK
17.000	9	39	117.295	-0.289	0.000	0.01		0.6	OK
17.001	75	39	117.141	-0.256	0.000	0.05		4.1	OK
17.002	76	39	116.743	-0.477	0.000	0.02		7.8	OK
15.003	68	39	116.539	-0.406	0.000	0.12		28.3	OK
15.004	69	39	116.354	-0.463	0.000	0.11		34.2	OK
15.005	70	39	116.280	-0.448	0.000	0.12		34.2	OK
15.006	71	39	116.241	-0.433	0.000	0.13		39.7	OK
18.000	147	39	116.774	-0.197	0.000	0.04		1.4	OK
18.001	112	39	116.596	-0.251	0.000	0.06		3.3	OK
18.002	113	39	116.416	-0.387	0.000	0.04		4.3	OK
19.000	115	39	117.290	-0.204	0.000	0.02		0.9	OK
19.001	116	39	117.032	-0.198	0.000	0.03		2.7	OK
18.003	77	39	116.373	-0.377	0.000	0.06		7.8	OK
20.000	134	39	117.235	-0.197	0.000	0.04		3.1	OK
18.004	135	39	116.293	-0.407	0.000	0.08		13.6	OK
18.005	78	39	116.240	-0.405	0.000	0.09		15.5	OK
15.007	72	38	116.201	-0.397	0.000	0.20		57.7	OK
15.008	73	38	116.108	-0.346	0.000	0.29		60.8	OK
15.009	74	38	116.065	-0.346	0.000	0.37		60.8	OK
15.010	98	38	115.985	-0.400	0.000	0.23		60.8	OK
15.011	99	38	115.870	-0.413	0.000	0.21		60.8	OK
15.012	101	38	115.689	-0.410	0.000	0.22		60.8	OK
21.000	142	39	117.105	-0.184	0.000	0.08		3.6	OK
21.001	143	39	116.687	-0.180	0.000	0.09		5.4	OK
22.000	118	39	117.089	-0.217	0.000	0.01		0.3	OK
22.001	119	39	117.028	-0.192	0.000	0.05		1.7	OK
22.002	120	39	116.978	-0.183	0.000	0.08		5.0	OK
23.000	129	39	116.613	-0.264	0.000	0.03		2.8	OK
23.001	130	39	116.478	-0.264	0.000	0.03		3.5	OK
22.003	121	39	116.277	-0.217	0.000	0.17		11.1	OK
24.000	131	39	116.904	-0.174	0.000	0.12		4.9	OK
24.001	132	39	116.631	-0.151	0.000	0.24		6.4	OK
24.002	133	39	116.487	-0.253	0.000	0.06		7.5	OK
22.004	122	39	116.074	-0.350	0.000	0.11		20.0	OK
22.005	123	39	116.004	-0.324	0.000	0.15		22.8	OK
25.000	139	39	116.714	-0.173	0.000	0.12		3.4	OK
25.001	140	39	116.601	-0.173	0.000	0.12		7.6	OK
22.006	124	39	115.952	-0.310	0.000	0.21		31.9	OK
22.007	125	39	115.742	-0.464	0.000	0.12		31.9	OK
22.008	126	39	115.553	-0.607	0.000	0.06		34.0	OK
22.009	127	39	115.497	-0.566	0.000	0.14		34.0	OK
21.002	149	39	115.372	-0.643	0.000	0.05		39.4	OK
1.020	20	29	114.788	1.234	0.000	4.32		286.4	SURCHARGED
1.021	108	29	114.221	0.676	0.000	1.15		288.2	SURCHARGED
1.022	21	30	114.060	0.651	0.000	1.12		286.0	SURCHARGED
1.023	22	32	113.826	0.605	0.000	1.17		285.1	SURCHARGED

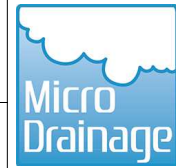
M-EC		Page 370
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	39	119.292	-0.646	0.000	0.01		6.6	OK
26.001	90	39	118.965	-0.642	0.000	0.01		7.8	OK
27.000	200	39	119.547	-0.269	0.000	0.02		3.8	OK
27.001	109	39	118.813	-0.466	0.000	0.03		4.2	OK
26.002	91	39	118.574	-0.674	0.000	0.02		12.1	OK
28.000	TWD27	39	119.364	-0.253	0.000	0.06		7.7	OK
26.003	91A	39	118.428	-0.734	0.000	0.03		21.3	OK
26.004	92	39	118.341	-0.723	0.000	0.04		24.2	OK
26.005	93	39	118.273	-0.730	0.000	0.03		24.2	OK
29.000	TWD29	39	119.387	-0.178	0.000	0.10		3.5	OK
29.001	TWD30	39	119.219	-0.239	0.000	0.09		5.8	OK
29.002	TWD31	39	119.089	-0.259	0.000	0.04		7.8	OK
26.006	94	39	118.149	-0.717	0.000	0.04		32.3	OK
26.007	95	39	118.040	-0.715	0.000	0.04		33.3	OK
30.000	201	39	119.189	-0.252	0.000	0.06		5.1	OK
30.001	202	39	118.951	-0.239	0.000	0.09		7.0	OK
30.002	203	39	118.881	-0.220	0.000	0.16		12.1	OK
30.003	204	39	118.672	-0.311	0.000	0.07		14.2	OK
30.004	117	39	118.391	-0.280	0.000	0.15		15.1	OK
26.008	95A	39	117.921	-0.690	0.000	0.06		51.2	OK
26.009	96	39	117.731	-0.702	0.000	0.05		51.2	OK
26.010	97	39	117.326	-0.712	0.000	0.05		51.2	OK
31.000	121	39	116.962	-0.658	0.000	0.09		32.8	OK
32.000	TWD4	39	120.065	-0.196	0.000	0.04		2.1	OK
32.001	TWD5	39	119.865	-0.184	0.000	0.08		4.5	OK
33.000	TWD16	39	119.478	-0.233	0.000	0.11		7.5	OK
32.002	TWD6	39	119.299	-0.289	0.000	0.12		12.9	OK
34.000	TWD17	39	119.515	-0.192	0.000	0.05		2.8	OK
35.000	TWD18	39	119.444	-0.194	0.000	0.05		2.0	OK
32.003	TWD7	39	119.149	-0.291	0.000	0.11		19.0	OK
32.004	TWD8	39	118.634	-0.349	0.000	0.11		23.4	OK
32.005	TWD9	39	118.516	-0.335	0.000	0.15		25.0	OK
32.006	TWD10	39	118.466	-0.335	0.000	0.15		25.3	OK
36.000	TWD19	39	119.545	-0.176	0.000	0.11		7.5	OK
32.007	TWD11	39	117.312	-0.409	0.000	0.22		33.7	OK
37.000	TWD20	39	119.302	-0.184	0.000	0.08		2.8	OK
37.001	TWD21	39	119.029	-0.242	0.000	0.08		5.7	OK
37.002	TWD22	39	118.835	-0.231	0.000	0.12		8.1	OK
37.003	TWD23	39	118.564	-0.296	0.000	0.10		10.5	OK
37.004	TWD24	39	118.469	-0.317	0.000	0.06		12.3	OK
37.005	TWD25	39	117.983	-0.315	0.000	0.06		13.9	OK
32.008	TWD12	39	117.200	-0.500	0.000	0.14		50.4	OK
38.000	TWD26	39	119.253	-0.197	0.000	0.04		3.7	OK
32.009	TWD13	39	117.075	-0.540	0.000	0.13		55.7	OK
32.010	TWD14	39	117.015	-0.532	0.000	0.14		57.8	OK
32.011	TWD15	39	116.967	-0.528	0.000	0.19		60.4	OK
26.011	98	39	116.713	-0.875	0.000	0.07		144.4	OK
26.012	99	39	116.178	-0.842	0.000	0.09		144.4	OK
26.013	100	39	115.982	-0.747	0.000	0.18		144.4	OK

Wellington House  
Leicester Road Ibstock  
Leics LE67 6HP

Longford Park  
Bodicote, Banbury  
Site-wide Storm Water Network




Date 26.09.16  
File 2016-09-23 SITE WIDE CA...

Designed by KA  
Checked by CP

Micro Drainage Network 2016.1


Summary Wizard of 960 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.024	23	33	113.698	0.566	0.000	1.63		422.1	SURCHARGED
1.025	24	33	113.145	0.219	0.000	1.65		421.6	SURCHARGED
1.026	25	32	112.639	-0.150	0.000	0.66		421.1	OK
39.000	79	39	121.657	-0.516	0.000	0.00		1.6	OK
39.001	80	39	121.257	-0.502	0.000	0.01		4.4	OK
39.002	81	39	120.683	-0.644	0.000	0.01		5.4	OK
40.000	130	39	121.010	-0.191	0.000	0.05		1.8	OK
41.000	BAR1	39	121.685	-0.120	0.000	0.09		2.5	OK
41.001	131	39	120.851	-0.323	0.000	0.05		4.5	OK
39.003	81A	39	120.525	-0.609	0.000	0.02		12.6	OK
42.000	133	39	120.671	-0.275	0.000	0.02		1.0	OK
39.004	82	39	120.240	-0.665	0.000	0.03		15.9	OK
39.005	83	39	120.164	-0.671	0.000	0.03		15.9	OK
43.000	BAR2	39	121.511	-0.118	0.000	0.11		3.3	OK
43.001	136	39	120.383	-0.309	0.000	0.07		5.3	OK
39.006	83A	39	120.013	-0.657	0.000	0.04		22.8	OK
44.000	206	39	120.467	-0.390	0.000	0.03		3.4	OK
44.001	207	39	120.437	-0.382	0.000	0.04		4.3	OK
44.002	208	39	120.411	-0.365	0.000	0.05		7.4	OK
44.003	209	39	120.369	-0.335	0.000	0.08		7.4	OK
45.000	210	39	120.890	-0.195	0.000	0.04		2.0	OK
45.001	211	39	120.687	-0.255	0.000	0.05		3.6	OK
45.002	212	39	120.435	-0.321	0.000	0.05		5.4	OK
44.004	213	39	120.361	-0.321	0.000	0.16		16.7	OK
44.005	214	39	120.321	-0.324	0.000	0.13		17.5	OK
44.006	215	39	120.272	-0.309	0.000	0.22		20.5	OK
44.007	138	39	120.227	-0.330	0.000	0.16		20.5	OK
39.007	84	39	119.857	-0.668	0.000	0.08		47.4	OK
46.000	BAR4	39	121.536	-0.173	0.000	0.12		4.6	OK
46.001	BAR5	39	121.327	-0.161	0.000	0.18		6.5	OK
47.000	BAR6	39	122.034	-0.117	0.000	0.11		1.9	OK
47.001	BAR7	39	121.697	-0.174	0.000	0.12		4.2	OK
47.002	BAR8	39	121.550	-0.177	0.000	0.10		5.9	OK
46.002	BAR9	39	121.175	-0.204	0.000	0.22		13.8	OK
46.003	BAR10	39	121.066	-0.235	0.000	0.11		17.5	OK
46.004	140	39	120.158	-0.337	0.000	0.15		17.5	OK
39.008	85	39	119.803	-0.665	0.000	0.08		64.8	OK
39.009	86	39	119.669	-0.665	0.000	0.08		67.5	OK
48.000	BAR3	39	120.823	-0.125	0.000	0.07		2.2	OK
48.001	143	39	119.782	-0.392	0.000	0.04		4.6	OK
49.000	216	39	120.408	-0.262	0.000	0.04		6.9	OK
49.001	144	39	119.812	-0.383	0.000	0.05		7.3	OK
39.010	87	39	119.425	-0.727	0.000	0.08		79.4	OK
39.011	88	39	119.294	-0.713	0.000	0.10		92.9	OK
39.012	103	39	119.145	-0.706	0.000	0.10		100.6	OK
50.000	BAR11	39	121.331	-0.114	0.000	0.13		2.3	OK
50.001	BAR12	39	120.962	-0.176	0.000	0.11		5.5	OK
51.000	BAR13	39	120.770	-0.198	0.000	0.03		0.9	OK
50.002	BAR14	39	120.750	-0.169	0.000	0.14		7.6	OK

M-EC		Page 372
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 960 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	39	120.836	-0.115	0.000	0.13		2.1	OK
52.001	BAR16	39	120.545	-0.181	0.000	0.09		3.8	OK
50.003	BAR17	39	120.409	-0.209	0.000	0.20		12.3	OK
50.004	BAR18	39	120.335	-0.206	0.000	0.22		13.7	OK
50.005	BAR19	39	120.209	-0.240	0.000	0.09		15.4	OK
50.006	149	39	119.366	-0.359	0.000	0.09		15.4	OK
53.000	TWD1	39	120.418	-0.196	0.000	0.04		1.5	OK
54.000	TWD3	39	120.669	-0.213	0.000	0.01		1.0	OK
53.001	TWD2	39	120.054	-0.192	0.000	0.05		4.8	OK
39.013	104	39	118.919	-0.751	0.000	0.18		120.9	OK
39.014	104A	38	118.822	-0.813	0.000	0.11		121.6	OK
55.000	BAR20	39	121.384	-0.109	0.000	0.17		2.9	OK
55.001	BAR21	39	120.875	-0.178	0.000	0.10		5.4	OK
56.000	BAR22	39	120.433	-0.172	0.000	0.13		4.7	OK
56.001	BAR23	39	120.309	-0.160	0.000	0.19		6.1	OK
55.002	BAR24	39	120.190	-0.224	0.000	0.15		12.0	OK
55.003	BAR25	39	119.909	-0.285	0.000	0.13		14.1	OK
55.004	BAR26	39	119.797	-0.319	0.000	0.05		16.8	OK
39.015	105	38	118.650	-0.824	0.000	0.10		138.4	OK
39.016	106	38	118.461	-1.686	0.000	0.02		138.4	OK
39.017	107	38	115.805	-0.742	0.000	0.07		138.3	OK
1.027	26	36	112.170	-0.738	0.000	0.15		553.9	OK
1.028	27	36	109.356	-0.391	0.000	0.27		552.9	OK
1.029	28	36	106.413	-0.778	0.000	0.12		551.0	OK
1.030	29	35	97.462	-1.015	0.000	0.09		552.5	OK
1.031	30	35	92.902	-0.480	0.000	0.27		553.7	OK
1.032	31	27	91.867	-0.383	0.000	0.35		553.8	OK
1.033	32	2	91.856	-0.267	0.000	0.17		537.8	FLOOD RISK*
1.034	33	2	91.842	1.569	0.000	0.93		226.2	FLOOD RISK*
57.000	108	8	91.784	-0.102	0.000	0.11		177.5	FLOOD RISK*
57.001	109	2	91.762	-0.124	0.000	0.09		165.4	FLOOD RISK*
57.002	110	2	91.749	-0.137	0.000	0.05		133.6	FLOOD RISK*
1.035	109	2	91.738	1.872	0.000	0.28		68.1	FLOOD RISK*
1.036	34	19	86.650	0.000	0.000	0.75		62.6	SURCHARGED*

M-EC		Page 373
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 100 year Winter I+30% for STORM.SWS

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0      MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0      Inlet Coefficient 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 4  
Number of Online Controls 1      Number of Time/Area Diagrams 0  
Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.409  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      19.700 Cv (Winter) 0.850


Margin for Flood Risk Warning (mm) 300.0      DVD Status ON  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

Profile(s)

Summer and Winter


Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440  
Return Period(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	
1.000	1	44	116.590	-0.265	0.000	0.03	2.6	OK
1.001	2	44	116.447	-0.262	0.000	0.04	3.4	OK
1.002	3	44	116.154	-0.334	0.000	0.03	3.4	OK
1.003	4	44	116.029	-0.318	0.000	0.06	9.8	OK
2.000	5	44	118.409	-0.266	0.000	0.03	3.4	OK
2.001	6	44	118.213	-0.248	0.000	0.07	7.2	OK
2.002	6	44	117.961	-0.252	0.000	0.06	8.2	OK
2.003	8	44	117.088	-0.260	0.000	0.04	10.3	OK
3.000	9.1	44	118.245	-0.180	0.000	0.09	4.7	OK
3.001	9	44	116.892	-0.253	0.000	0.06	4.7	OK
3.002	10	44	116.666	-0.317	0.000	0.06	6.3	OK
3.003	11	44	116.508	-0.374	0.000	0.07	12.0	OK
4.000	12	44	117.089	-0.197	0.000	0.04	3.9	OK
3.004	13	44	116.310	-0.450	0.000	0.05	15.9	OK
3.005	14	44	116.133	-0.420	0.000	0.09	21.7	OK
3.006	15	44	115.991	-0.474	0.000	0.10	22.3	OK
2.004	16	44	115.966	-0.477	0.000	0.09	32.6	OK
2.005	17	44	115.873	-0.480	0.000	0.09	37.1	OK
5.000	18	44	116.682	-0.205	0.000	0.02	2.2	OK
2.006	19	44	115.704	-0.475	0.000	0.10	40.9	OK
2.007	20	44	115.538	-0.469	0.000	0.11	43.1	OK
1.004	21	44	115.403	-0.445	0.000	0.15	53.0	OK

M-EC		Page 374
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage		Network 2016.1


Summary Wizard of 1440 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
1.005	22	44	115.193	-0.594	0.000	0.10		60.2	OK
6.000	23	44	116.744	-0.186	0.000	0.07		3.1	OK
6.001	24	44	116.512	-0.181	0.000	0.09		3.1	OK
6.002	25	44	116.376	-0.249	0.000	0.07		5.1	OK
6.003	26	44	116.082	-0.233	0.000	0.11		7.0	OK
6.004	27	44	115.951	-0.305	0.000	0.08		10.1	OK
6.005	28	44	115.658	-0.325	0.000	0.04		10.1	OK
1.006	29	44	115.031	-0.599	0.000	0.09		75.6	OK
7.000	30	44	118.068	-0.192	0.000	0.05		2.1	OK
7.001	31	44	117.899	-0.196	0.000	0.04		4.7	OK
1.007	8	44	114.755	-0.586	0.000	0.11		81.2	OK
8.000	60	44	116.659	-0.197	0.000	0.04		1.4	OK
8.001	61	44	116.405	-0.279	0.000	0.02		1.6	OK
8.002	35	44	116.141	-0.287	0.000	0.01		2.3	OK
1.008	10	44	114.498	-0.581	0.000	0.25		83.5	OK
9.000	62	44	119.048	-0.252	0.000	0.06		5.1	OK
10.000	40	44	118.768	-0.200	0.000	0.25		15.1	OK
9.001	63	44	118.694	-0.285	0.000	0.13		22.2	OK
9.002	64	44	118.203	-0.315	0.000	0.06		28.1	OK
9.003	148	44	114.916	-0.350	0.000	0.11		28.9	OK
1.009	11	44	114.465	-0.595	0.000	0.16		114.2	OK
1.010	12	44	114.418	-0.558	0.000	0.31		116.1	OK
1.011	13	44	114.370	-0.584	0.000	0.27		116.8	OK
1.012	14	44	114.202	-0.719	0.000	0.12		117.6	OK
1.013	15	44	114.180	-0.690	0.000	0.26		117.6	OK
1.014	16	42	114.075	-0.772	0.000	0.13		117.5	OK
11.000	TWC16	44	117.653	-0.188	0.000	0.06		6.3	OK
11.001	TWC17	44	115.467	-0.193	0.000	0.05		6.3	OK
1.015	17	42	114.026	-0.844	0.000	0.09		123.4	OK
1.016	18	42	113.992	-0.775	0.000	0.09		122.2	OK
12.000	TWC1	44	117.610	-0.191	0.000	0.06		2.1	OK
12.001	TWC2	44	117.453	-0.183	0.000	0.08		3.0	OK
12.002	TWC3	44	117.208	-0.162	0.000	0.18		6.1	OK
12.003	TWC4	44	117.137	-0.160	0.000	0.18		6.1	OK
13.000	TWC5	44	118.112	-0.178	0.000	0.10		3.6	OK
13.001	TWC6	44	117.906	-0.162	0.000	0.18		6.5	OK
13.002	TWC7	44	117.724	-0.174	0.000	0.12		8.3	OK
12.004	TWC8	44	116.973	-0.269	0.000	0.16		15.9	OK
12.005	TWC9	44	116.906	-0.262	0.000	0.20		17.5	OK
12.006	TWC10	44	116.828	-0.292	0.000	0.11		18.0	OK
1.017	TWC11	42	113.968	-0.699	0.000	0.10		139.5	OK
1.018	19	42	113.947	-0.646	0.000	0.07		139.3	OK
14.000	TWC12	44	117.211	-0.198	0.000	0.03		1.3	OK
14.001	TWC13	44	117.047	-0.205	0.000	0.02		2.4	OK
14.002	TWC14	44	116.090	-0.189	0.000	0.06		4.8	OK
1.019	TWC15	42	113.923	-0.405	0.000	0.11		144.4	OK
15.000	65	44	117.123	-0.246	0.000	0.07		5.1	OK
16.000	136	44	118.014	-0.200	0.000	0.03		1.6	OK
16.001	137	44	117.708	-0.199	0.000	0.03		1.7	OK

M-EC		Page 375
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 100 year Winter I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
16.002	138	44	117.451	-0.268	0.000	0.02		3.2	OK
15.001	66	44	116.888	-0.298	0.000	0.09		11.1	OK
15.002	67	44	116.752	-0.292	0.000	0.11		12.5	OK
17.000	9	44	117.292	-0.292	0.000	0.01		0.4	OK
17.001	75	44	117.135	-0.262	0.000	0.04		2.9	OK
17.002	76	44	116.730	-0.490	0.000	0.01		5.6	OK
15.003	68	44	116.522	-0.423	0.000	0.08		20.4	OK
15.004	69	44	116.332	-0.485	0.000	0.08		24.6	OK
15.005	70	44	116.254	-0.474	0.000	0.09		24.6	OK
15.006	71	44	116.210	-0.464	0.000	0.09		28.7	OK
18.000	147	44	116.770	-0.201	0.000	0.03		1.0	OK
18.001	112	44	116.588	-0.259	0.000	0.05		2.4	OK
18.002	113	44	116.407	-0.396	0.000	0.03		3.1	OK
19.000	115	44	117.284	-0.210	0.000	0.01		0.7	OK
19.001	116	44	117.029	-0.201	0.000	0.02		1.9	OK
18.003	77	44	116.361	-0.389	0.000	0.05		5.7	OK
20.000	134	44	117.231	-0.201	0.000	0.03		2.2	OK
18.004	135	44	116.273	-0.427	0.000	0.06		9.8	OK
18.005	78	44	116.215	-0.430	0.000	0.06		11.2	OK
15.007	72	44	116.166	-0.432	0.000	0.15		41.7	OK
15.008	73	44	116.066	-0.388	0.000	0.21		43.9	OK
15.009	74	44	116.022	-0.389	0.000	0.27		43.9	OK
15.010	98	44	115.954	-0.431	0.000	0.16		43.9	OK
15.011	99	44	115.840	-0.443	0.000	0.15		43.9	OK
15.012	101	44	115.658	-0.441	0.000	0.16		43.9	OK
21.000	142	44	117.098	-0.191	0.000	0.06		2.6	OK
21.001	143	44	116.679	-0.188	0.000	0.07		3.9	OK
22.000	118	44	117.087	-0.219	0.000	0.01		0.2	OK
22.001	119	44	117.023	-0.197	0.000	0.04		1.2	OK
22.002	120	44	116.971	-0.190	0.000	0.06		3.6	OK
23.000	129	44	116.609	-0.268	0.000	0.03		2.1	OK
23.001	130	44	116.474	-0.268	0.000	0.02		2.5	OK
22.003	121	44	116.264	-0.230	0.000	0.12		8.0	OK
24.000	131	44	116.897	-0.182	0.000	0.08		3.5	OK
24.001	132	44	116.619	-0.163	0.000	0.17		4.6	OK
24.002	133	44	116.480	-0.260	0.000	0.04		5.4	OK
22.004	122	44	116.058	-0.366	0.000	0.08		14.4	OK
22.005	123	44	115.983	-0.345	0.000	0.11		16.5	OK
25.000	139	44	116.706	-0.180	0.000	0.09		2.4	OK
25.001	140	44	116.594	-0.180	0.000	0.09		5.5	OK
22.006	124	44	115.929	-0.333	0.000	0.15		23.0	OK
22.007	125	44	115.723	-0.484	0.000	0.08		23.0	OK
22.008	126	44	115.527	-0.633	0.000	0.04		24.5	OK
22.009	127	44	115.471	-0.592	0.000	0.10		24.5	OK
21.002	149	44	115.356	-0.659	0.000	0.04		28.4	OK
1.020	20	42	113.888	0.334	0.000	3.24		214.9	SURCHARGED
1.021	108	42	113.587	0.042	0.000	0.86		214.8	SURCHARGED
1.022	21	42	113.490	0.081	0.000	0.84		214.9	SURCHARGED
1.023	22	42	113.357	0.136	0.000	0.88		215.2	SURCHARGED

M-EC		Page 376
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 100 year Winter I+30% for STORM.SWS


PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
26.000	89	44	119.284	-0.654	0.000	0.01		4.8	OK
26.001	90	44	118.956	-0.651	0.000	0.01		5.7	OK
27.000	200	44	119.541	-0.275	0.000	0.02		2.7	OK
27.001	109	44	118.807	-0.472	0.000	0.02		3.1	OK
26.002	91	44	118.553	-0.695	0.000	0.02		8.7	OK
28.000	TWD27	44	119.357	-0.260	0.000	0.04		5.6	OK
26.003	91A	44	118.416	-0.746	0.000	0.02		15.3	OK
26.004	92	44	118.329	-0.735	0.000	0.03		17.5	OK
26.005	93	44	118.262	-0.741	0.000	0.02		17.5	OK
29.000	TWD29	44	119.379	-0.186	0.000	0.07		2.5	OK
29.001	TWD30	44	119.208	-0.250	0.000	0.07		4.2	OK
29.002	TWD31	44	119.083	-0.265	0.000	0.03		5.6	OK
26.006	94	44	118.135	-0.731	0.000	0.03		23.3	OK
26.007	95	44	118.025	-0.730	0.000	0.03		24.0	OK
30.000	201	44	119.181	-0.260	0.000	0.04		3.7	OK
30.001	202	44	118.941	-0.249	0.000	0.07		5.0	OK
30.002	203	44	118.869	-0.232	0.000	0.12		8.7	OK
30.003	204	44	118.661	-0.322	0.000	0.05		10.3	OK
30.004	117	44	118.377	-0.294	0.000	0.10		10.9	OK
26.008	95A	44	117.899	-0.712	0.000	0.05		37.0	OK
26.009	96	44	117.713	-0.720	0.000	0.04		37.0	OK
26.010	97	44	117.310	-0.728	0.000	0.03		37.0	OK
31.000	121	44	116.932	-0.688	0.000	0.07		23.7	OK
32.000	TWD4	44	120.062	-0.199	0.000	0.03		1.5	OK
32.001	TWD5	44	119.858	-0.191	0.000	0.05		3.2	OK
33.000	TWD16	44	119.469	-0.242	0.000	0.08		5.4	OK
32.002	TWD6	44	119.287	-0.301	0.000	0.09		9.3	OK
34.000	TWD17	44	119.510	-0.197	0.000	0.04		2.0	OK
35.000	TWD18	44	119.440	-0.198	0.000	0.03		1.4	OK
32.003	TWD7	44	119.137	-0.303	0.000	0.08		13.7	OK
32.004	TWD8	44	118.619	-0.364	0.000	0.08		16.9	OK
32.005	TWD9	44	118.498	-0.353	0.000	0.11		18.0	OK
32.006	TWD10	44	118.449	-0.352	0.000	0.11		18.2	OK
36.000	TWD19	44	119.538	-0.183	0.000	0.08		5.4	OK
32.007	TWD11	44	117.281	-0.440	0.000	0.16		24.3	OK
37.000	TWD20	44	119.295	-0.191	0.000	0.05		2.1	OK
37.001	TWD21	44	119.019	-0.252	0.000	0.06		4.1	OK
37.002	TWD22	44	118.825	-0.241	0.000	0.09		5.8	OK
37.003	TWD23	44	118.551	-0.309	0.000	0.07		7.6	OK
37.004	TWD24	44	118.460	-0.326	0.000	0.04		8.9	OK
37.005	TWD25	44	117.973	-0.325	0.000	0.04		10.1	OK
32.008	TWD12	44	117.172	-0.528	0.000	0.10		36.4	OK
38.000	TWD26	44	119.249	-0.201	0.000	0.03		2.6	OK
32.009	TWD13	44	117.040	-0.575	0.000	0.09		40.2	OK
32.010	TWD14	44	116.979	-0.568	0.000	0.10		41.7	OK
32.011	TWD15	44	116.930	-0.565	0.000	0.14		43.6	OK
26.011	98	44	116.684	-0.904	0.000	0.05		104.2	OK
26.012	99	44	116.140	-0.880	0.000	0.06		104.2	OK
26.013	100	44	115.933	-0.796	0.000	0.13		104.2	OK



M-EC		Page 377
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
1.024	23	42	113.289	0.157	0.000	1.22	317.1	SURCHARGED
1.025	24	42	112.981	0.055	0.000	1.24	317.1	SURCHARGED
1.026	25	42	112.601	-0.188	0.000	0.50	317.1	OK
39.000	79	44	121.654	-0.519	0.000	0.00	1.1	OK
39.001	80	44	121.250	-0.509	0.000	0.01	3.2	OK
39.002	81	44	120.674	-0.653	0.000	0.01	3.9	OK
40.000	130	44	121.005	-0.196	0.000	0.04	1.3	OK
41.000	BAR1	44	121.679	-0.126	0.000	0.06	1.8	OK
41.001	131	44	120.844	-0.330	0.000	0.03	3.2	OK
39.003	81A	44	120.507	-0.627	0.000	0.01	9.1	OK
42.000	133	44	120.664	-0.282	0.000	0.01	0.7	OK
39.004	82	44	120.231	-0.674	0.000	0.02	11.5	OK
39.005	83	44	120.149	-0.686	0.000	0.02	11.5	OK
43.000	BAR2	44	121.506	-0.123	0.000	0.08	2.4	OK
43.001	136	44	120.372	-0.320	0.000	0.05	3.8	OK
39.006	83A	44	120.002	-0.668	0.000	0.03	16.5	OK
44.000	206	44	120.457	-0.400	0.000	0.02	2.5	OK
44.001	207	44	120.425	-0.394	0.000	0.03	3.1	OK
44.002	208	44	120.395	-0.381	0.000	0.04	5.3	OK
44.003	209	44	120.349	-0.355	0.000	0.06	5.3	OK
45.000	210	44	120.886	-0.199	0.000	0.03	1.4	OK
45.001	211	44	120.680	-0.262	0.000	0.04	2.6	OK
45.002	212	44	120.427	-0.329	0.000	0.04	3.9	OK
44.004	213	44	120.339	-0.343	0.000	0.12	12.0	OK
44.005	214	44	120.300	-0.345	0.000	0.09	12.6	OK
44.006	215	44	120.249	-0.332	0.000	0.16	14.8	OK
44.007	138	44	120.208	-0.349	0.000	0.12	14.8	OK
39.007	84	44	119.828	-0.697	0.000	0.06	34.2	OK
46.000	BAR4	44	121.529	-0.180	0.000	0.09	3.3	OK
46.001	BAR5	44	121.317	-0.171	0.000	0.13	4.7	OK
47.000	BAR6	44	122.029	-0.122	0.000	0.08	1.4	OK
47.001	BAR7	44	121.689	-0.182	0.000	0.08	3.1	OK
47.002	BAR8	44	121.542	-0.185	0.000	0.07	4.3	OK
46.002	BAR9	44	121.159	-0.220	0.000	0.16	10.0	OK
46.003	BAR10	44	121.056	-0.245	0.000	0.08	12.6	OK
46.004	140	44	120.142	-0.353	0.000	0.10	12.6	OK
39.008	85	44	119.774	-0.694	0.000	0.06	46.8	OK
39.009	86	44	119.640	-0.694	0.000	0.06	48.7	OK
48.000	BAR3	44	120.819	-0.129	0.000	0.05	1.6	OK
48.001	143	44	119.775	-0.399	0.000	0.03	3.3	OK
49.000	216	44	120.403	-0.267	0.000	0.03	5.0	OK
49.001	144	44	119.802	-0.393	0.000	0.04	5.3	OK
39.010	87	44	119.394	-0.758	0.000	0.06	57.3	OK
39.011	88	44	119.262	-0.745	0.000	0.07	67.1	OK
39.012	103	44	119.114	-0.737	0.000	0.08	72.6	OK
50.000	BAR11	44	121.326	-0.119	0.000	0.09	1.6	OK
50.001	BAR12	44	120.954	-0.184	0.000	0.08	3.9	OK
51.000	BAR13	44	120.766	-0.202	0.000	0.02	0.6	OK
50.002	BAR14	44	120.742	-0.177	0.000	0.10	5.5	OK

M-EC		Page 378
Wellington House Leicester Road Ibstock Leics LE67 6HP	Longford Park Bodicote, Banbury Site-wide Storm Water Network	
Date 26.09.16 File 2016-09-23 SITE WIDE CA...	Designed by KA Checked by CP	
Micro Drainage	Network 2016.1	

Summary Wizard of 1440 minute 100 year Winter I+30% for STORM.SWS

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Pipe (l/s)	Status
52.000	BAR15	44	120.831	-0.120	0.000	0.09		1.5	OK
52.001	BAR16	44	120.537	-0.189	0.000	0.06		2.8	OK
50.003	BAR17	44	120.393	-0.225	0.000	0.14		8.9	OK
50.004	BAR18	44	120.320	-0.221	0.000	0.16		9.9	OK
50.005	BAR19	44	120.198	-0.251	0.000	0.06		11.1	OK
50.006	149	44	119.350	-0.375	0.000	0.07		11.1	OK
53.000	TWD1	44	120.414	-0.200	0.000	0.03		1.1	OK
54.000	TWD3	44	120.666	-0.216	0.000	0.01		0.7	OK
53.001	TWD2	44	120.049	-0.197	0.000	0.04		3.5	OK
39.013	104	44	118.870	-0.800	0.000	0.13		87.2	OK
39.014	104A	44	118.787	-0.848	0.000	0.08		87.7	OK
55.000	BAR20	44	121.377	-0.116	0.000	0.12		2.1	OK
55.001	BAR21	44	120.868	-0.185	0.000	0.07		3.9	OK
56.000	BAR22	44	120.426	-0.179	0.000	0.09		3.4	OK
56.001	BAR23	44	120.298	-0.171	0.000	0.13		4.4	OK
55.002	BAR24	44	120.179	-0.235	0.000	0.11		8.6	OK
55.003	BAR25	44	119.896	-0.298	0.000	0.10		10.2	OK
55.004	BAR26	44	119.788	-0.328	0.000	0.04		12.2	OK
39.015	105	44	118.612	-0.862	0.000	0.07		99.9	OK
39.016	106	44	118.419	-1.728	0.000	0.01		99.9	OK
39.017	107	44	115.762	-0.785	0.000	0.05		99.9	OK
1.027	26	42	112.105	-0.803	0.000	0.11		416.0	OK
1.028	27	42	109.297	-0.450	0.000	0.20		416.1	OK
1.029	28	42	106.356	-0.835	0.000	0.09		416.2	OK
1.030	29	42	97.394	-1.083	0.000	0.07		416.3	OK
1.031	30	42	92.827	-0.555	0.000	0.20		416.3	OK
1.032	31	26	91.874	-0.376	0.000	0.27		415.9	OK
1.033	32	1	91.863	-0.260	0.000	0.13		409.1	FLOOD RISK*
1.034	33	1	91.849	1.576	0.000	0.76		186.8	FLOOD RISK*
57.000	108	7	91.785	-0.101	0.000	0.08		127.2	FLOOD RISK*
57.001	109	1	91.767	-0.119	0.000	0.06		115.0	FLOOD RISK*
57.002	110	1	91.752	-0.134	0.000	0.04		89.9	FLOOD RISK*
1.035	109	1	91.740	1.874	0.000	0.29		69.6	FLOOD RISK*
1.036	34	18	86.650	0.000	0.000	0.80		66.3	SURCHARGED*