



Micro
Drainage



Micro
Drainage

Lees Roxburgh

The Genesis Centre
Science Park South
Birchwood WA3 7BH

Date 26/02/2024 14:28
File NETWORK1SW 31.07.23.MDX

Innovyze

6196 - Longridge
Network 1
Surface Water - 100yr+30%cc

Designed by Lees Roxburgh
Checked by

Network 2019.1

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
9.004	23.779	0.297	80.0	0.082	0.00	0.0	0.600	o	300	Pipe/Conduit	
9.005	10.711	0.458	23.4	0.099	0.00	0.0	0.600	o	300	Pipe/Conduit	
11.000	14.148	0.283	50.0	0.062	5.00	0.0	0.600	o	225	Pipe/Conduit	
11.001	49.807	0.651	76.5	0.057	0.00	0.0	0.600	o	225	Pipe/Conduit	
11.002	15.927	0.245	65.0	0.091	0.00	0.0	0.600	o	225	Pipe/Conduit	
11.003	17.713	0.533	33.2	0.051	0.00	0.0	0.600	o	225	Pipe/Conduit	
12.000	10.847	0.065	166.9	0.016	5.00	0.0	0.600	o	225	Pipe/Conduit	
11.004	23.917	0.239	100.0	0.024	0.00	0.0	0.600	o	300	Pipe/Conduit	
11.005	22.408	0.112	200.1	0.073	0.00	0.0	0.600	o	300	Pipe/Conduit	
13.000	12.911	0.172	75.0	0.084	5.00	0.0	0.600	o	225	Pipe/Conduit	
13.001	18.327	0.229	80.0	0.010	0.00	0.0	0.600	o	225	Pipe/Conduit	
13.002	13.234	0.165	80.0	0.013	0.00	0.0	0.600	o	225	Pipe/Conduit	
13.003	12.828	0.160	80.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
13.004	29.291	0.617	47.5	0.067	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)
9.004	5.00	6.88	80.515	0.531	0.0	0.0	0.0	1.76	124.4	7.2
9.005	5.00	6.94	80.218	0.630	0.0	0.0	0.0	3.26	230.8	8.5
11.000	5.00	5.13	82.508	0.062	0.0	0.0	0.0	1.85	73.7	0.8
11.001	5.00	5.68	82.225	0.119	0.0	0.0	0.0	1.50	59.5	1.6
11.002	5.00	5.85	81.574	0.210	0.0	0.0	0.0	1.62	64.6	2.8
11.003	5.00	5.97	81.329	0.261	0.0	0.0	0.0	2.28	90.5	3.5
12.000	5.00	5.18	80.862	0.016	0.0	0.0	0.0	1.01	40.1	0.2
11.004	5.00	6.23	80.722	0.301	0.0	0.0	0.0	1.57	111.1	4.1
11.005	5.00	6.57	80.483	0.374	0.0	0.0	0.0	1.11	78.3	5.1
13.000	5.00	5.14	81.790	0.084	0.0	0.0	0.0	1.51	60.1	1.1
13.001	5.00	5.35	81.618	0.094	0.0	0.0	0.0	1.46	58.2	1.3
13.002	5.00	5.50	81.389	0.107	0.0	0.0	0.0	1.46	58.2	1.4
13.003	5.00	5.65	81.223	0.107	0.0	0.0	0.0	1.46	58.2	1.4
13.004	5.00	5.90	81.063	0.174	0.0	0.0	0.0	1.90	75.7	2.4

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6196 - Longridge
Network 1
Surface Water - 100yr+30%cc

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
11.006	10.309	0.071	145.2	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.007	20.024	0.100	200.0	0.022	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.008	21.151	0.106	199.9	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.009	19.314	0.097	199.9	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.010	27.769	0.139	200.1	0.076	0.00	0.0	0.600	o	375	Pipe/Conduit	
11.011	19.661	0.098	200.0	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit	
9.006	45.767	0.458	100.0	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
9.007	28.346	0.284	100.0	0.044	0.00	0.0	0.600	o	450	Pipe/Conduit	
9.008	28.041	0.421	66.6	0.153	0.00	0.0	0.600	o	450	Pipe/Conduit	
1.013	29.117	0.073	398.9	0.073	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.014	22.974	0.057	400.2	0.077	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.015	7.695	0.019	400.8	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.016	24.038	0.060	400.6	0.203	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.017	30.964	0.031	998.8	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.018	22.045	0.022	1002.0	0.000	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)
11.006	5.00	6.68	80.296	0.548	0.0	0.0	0.0	1.50	165.8	7.4
11.007	5.00	6.94	80.225	0.570	0.0	0.0	0.0	1.28	141.1	7.7
11.008	5.00	7.22	80.125	0.570	0.0	0.0	0.0	1.28	141.1	7.7
11.009	5.00	7.47	80.019	0.570	0.0	0.0	0.0	1.28	141.1	7.7
11.010	5.00	7.83	79.922	0.646	0.0	0.0	0.0	1.28	141.1	8.7
11.011	5.00	8.09	79.784	0.646	0.0	0.0	0.0	1.28	141.1	8.7
9.006	5.00	8.46	79.610	1.276	0.0	0.0	0.0	2.03	323.4	17.3
9.007	5.00	8.70	79.152	1.320	0.0	0.0	0.0	2.03	323.4	17.9
9.008	5.00	8.88	78.869	1.473	0.0	0.0	0.0	2.49	396.7	19.9
1.013	5.00	9.23	78.148	3.453	15.0	0.0	0.0	1.40	616.3	61.8
1.014	5.00	9.51	78.075	3.530	15.0	0.0	0.0	1.39	615.2	62.8
1.015	5.00	9.60	78.017	3.530	15.0	0.0	0.0	1.39	614.8	62.8
1.016	5.00	9.89	77.998	3.733	15.0	0.0	0.0	1.39	614.9	65.5
1.017	5.00	10.47	77.588	3.733	15.0	0.0	0.0	0.88	387.5	65.5
1.018	5.00	10.89	77.557	3.733	15.0	0.0	0.0	0.88	386.8	65.5

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 100yr+30%cc	
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Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for NETWORK1-05.06.18.SWS

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.019	5.805	0.015	387.0	0.000	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.020	8.799	0.022	400.0	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)
1.019	5.00	10.96	77.535	3.733	15.0	0.0	0.0	1.42	625.8	65.5
1.020	5.00	11.11	77.520	3.733	15.0	0.0	0.0	1.01	160.7	65.5

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The Genesis Centre Science Park South Birchwood WA3 7BH				6196 - Longridge Network 1 Surface Water - 100yr+30%cc							
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Manhole Schedules for NETWORK1-05.06.18.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	84.801	1.476	Open Manhole	1500	1.000	83.325	225				
2	84.553	1.479	Open Manhole	1500	1.001	83.074	225	1.000	83.074	225	
3	84.350	1.485	Open Manhole	1500	1.002	82.865	225	1.001	82.865	225	
4	83.908	1.445	Open Manhole	1500	1.003	82.464	225	1.002	82.464	225	
5	83.653	1.434	Open Manhole	1500	1.004	82.219	225	1.003	82.219	225	
6	82.698	1.425	Open Manhole	1500	2.000	81.273	225				
7	82.976	1.918	Open Manhole	1500	2.001	81.058	300	2.000	81.133	225	
8	83.319	2.209	Open Manhole	1500	3.000	81.110	225				
9	83.222	2.318	Open Manhole	1500	2.002	80.904	300	2.001	80.904	300	
								3.000	80.979	225	
10	83.218	2.352	Open Manhole	1500	2.003	80.866	300	2.002	80.866	300	
11	83.459	2.708	Open Manhole	1500	1.005	80.751	375	1.004	82.010	225	1109
								2.003	80.826	300	
12	83.254	2.543	Open Manhole	1800	1.006	80.711	375	1.005	80.711	375	
13	83.001	2.337	Open Manhole	1800	1.007	80.664	375	1.006	80.664	375	
14	82.729	1.425	Open Manhole	1500	4.000	81.304	225				
15	82.430	1.427	Open Manhole	1500	4.001	81.003	225	4.000	81.003	225	
16	82.268	1.425	Open Manhole	1500	4.002	80.843	225	4.001	80.843	225	
17	82.043	1.500	Open Manhole	1500	4.003	80.543	300	4.002	80.618	225	
18	82.680	1.425	Open Manhole	1500	5.000	81.255	225				
19	82.428	1.487	Open Manhole	1500	5.001	80.941	225	5.000	80.941	225	
20	82.039	1.678	Open Manhole	1800	1.008	80.361	375	1.007	80.361	375	
								4.003	80.436	300	
								5.001	80.511	225	
21	81.286	1.666	Open Manhole	1800	1.009	79.620	450	1.008	79.695	375	
22	81.613	1.735	Open Manhole	1500	6.000	79.878	225				
23	81.419	1.641	Open Manhole	1500	6.001	79.778	225	6.000	79.778	225	
24	81.283	1.596	Open Manhole	1500	6.002	79.688	225	6.001	79.688	225	
25	81.082	1.600	Open Manhole	1500	6.003	79.482	300	6.002	79.557	225	
26	80.898	1.505	Open Manhole	1500	6.004	79.393	300	6.003	79.393	300	
27	81.384	1.460	Open Manhole	1500	7.000	79.924	225				
28	81.069	1.402	Open Manhole	1500	7.001	79.667	225	7.000	79.667	225	
29	80.866	1.769	Open Manhole	2100	1.010	79.097	525	1.009	79.172	450	
								6.004	79.322	300	
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The Genesis Centre Science Park South Birchwood WA3 7BH				6196 - Longridge Network 1 Surface Water - 100yr+30%cc						
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Innovyze				Network 2019.1						
Manhole Schedules for NETWORK1-05.06.18.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)
30	80.301	1.800	Open Manhole	2100	1.011	78.501	600	7.001	79.397	225
31	80.640	1.693	Open Manhole	1500	8.000	78.947	300	1.010	78.576	525
32	80.403	1.607	Open Manhole	1800	8.001	78.796	300	8.000	78.796	300
33	80.263	1.990	Open Manhole	2100	1.012	78.273	750	1.011	78.423	600
								8.001	78.723	300
34	83.961	1.428	Open Manhole	1500	9.000	82.533	225			
35	83.183	1.425	Open Manhole	1500	10.000	81.758	225			
36	83.244	1.650	Open Manhole	1500	10.001	81.594	225	10.000	81.594	225
37	83.209	1.745	Open Manhole	1500	9.001	81.464	225	9.000	81.464	225
								10.001	81.464	225
38	82.841	1.634	Open Manhole	1500	9.002	81.207	300	9.001	81.282	225
39	82.541	1.629	Open Manhole	1500	9.003	80.912	300	9.002	80.912	300
40	82.099	1.584	Open Manhole	1500	9.004	80.515	300	9.003	80.515	300
41	81.777	1.559	Open Manhole	1800	9.005	80.218	300	9.004	80.218	300
42a	83.933	1.425	Open Manhole	1200	11.000	82.508	225			
42	83.651	1.426	Open Manhole	1500	11.001	82.225	225	11.000	82.225	225
43	83.024	1.450	Open Manhole	1500	11.002	81.574	225	11.001	81.574	225
44	82.756	1.427	Open Manhole	1500	11.003	81.329	225	11.002	81.329	225
45	82.287	1.425	Open Manhole	1500	12.000	80.862	225			
46	82.461	1.739	Open Manhole	1500	11.004	80.722	300	11.003	80.796	225
								12.000	80.797	225
47	81.992	1.509	Open Manhole	1500	11.005	80.483	300	11.004	80.483	300
48	83.215	1.425	Open Manhole	1500	13.000	81.790	225			
49	83.048	1.430	Open Manhole	1500	13.001	81.618	225	13.000	81.618	225
50	82.826	1.437	Open Manhole	1500	13.002	81.389	225	13.001	81.389	225
51	82.660	1.437	Open Manhole	1500	13.003	81.223	225	13.002	81.223	225
52	82.491	1.428	Open Manhole	1500	13.004	81.063	225	13.003	81.063	225
53	82.123	1.827	Open Manhole	1800	11.006	80.296	375	11.005	80.371	300
								13.004	80.446	225
54	81.993	1.768	Open Manhole	1800	11.007	80.225	375	11.006	80.225	375
55	81.700	1.575	Open Manhole	1800	11.008	80.125	375	11.007	80.125	375
56	81.650	1.631	Open Manhole	1800	11.009	80.019	375	11.008	80.019	375
57	81.650	1.728	Open Manhole	1800	11.010	79.922	375	11.009	79.922	375
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Micro
Drainage

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)
58	81.700	1.917	Open Manhole	1800	11.011	79.784	375	11.010	79.784	375	350
59	81.281	1.671	Open Manhole	1800	9.006	79.610	450	9.005	79.760	300	
								11.011	79.685	375	
60	81.062	1.909	Open Manhole	1800	9.007	79.152	450	9.006	79.152	450	
61	80.715	1.846	Open Manhole	1800	9.008	78.869	450	9.007	78.869	450	
62	80.431	2.283	Open Manhole	2400	1.013	78.148	750	1.012	78.148	750	
								9.008	78.448	450	
63	80.190	2.116	Open Manhole	2400	1.014	78.075	750	1.013	78.075	750	
64	80.069	2.051	Open Manhole	2400	1.015	78.017	750	1.014	78.017	750	
65	80.163	2.165	Open Manhole	2400	1.016	77.998	750	1.015	77.998	750	
66	80.000	2.412	Open Manhole	2400	1.017	77.588	750	1.016	77.938	750	
67	79.750	2.193	Open Manhole	2400	1.018	77.557	750	1.017	77.557	750	
68	79.750	2.215	Open Manhole	2400	1.019	77.535	750	1.018	77.535	750	
69	79.750	2.230	Open Manhole	2400	1.020	77.520	450	1.019	77.520	750	
70	79.000	1.502	Open Manhole	1200		OUTFALL		1.020	77.498	450	

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 100yr+30%cc	
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Online Controls for NETWORK1-05.06.18.SWS

Complex Manhole: 69, DS/PN: 1.020, Volume (m³): 11.6

Hydro-Brake® Optimum

Unit Reference	MD-SHE-0349-7300-0750-7300
Design Head (m)	0.750
Design Flow (l/s)	73.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	349
Invert Level (m)	77.520
Minimum Outlet Pipe Diameter (mm)	375
Suggested Manhole Diameter (mm)	1800

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.750	73.0	Kick-Flo®	0.666	68.9
Flush-Flo™	0.466	72.9	Mean Flow over Head Range	-	53.0

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	10.1	1.200	91.7	3.000	143.2	7.000	216.9
0.200	35.3	1.400	98.8	3.500	154.4	7.500	224.4
0.300	64.9	1.600	105.4	4.000	164.9	8.000	229.2
0.400	72.4	1.800	111.6	4.500	174.7	8.500	236.5
0.500	72.8	2.000	117.5	5.000	183.9	9.000	243.5
0.600	71.1	2.200	123.1	5.500	192.7	9.500	250.3
0.800	75.3	2.400	128.4	6.000	201.1		
1.000	83.9	2.600	133.6	6.500	209.2		

Orifice

Diameter (m) 0.250 Discharge Coefficient 0.600 Invert Level (m) 78.420

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The Genesis Centre Science Park South Birchwood WA3 7BH	6196 - Longridge Network 1 Surface Water - 100yr+30%cc									
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<u>Storage Structures for NETWORK1-05.06.18.SWS</u> <u>Tank or Pond Manhole: 67, DS/PN: 1.018</u> Invert Level (m) 77.557 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>960.0</td><td>1.200</td><td>1396.1</td></tr></tbody></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	960.0	1.200	1396.1
Depth (m)	Area (m²)	Depth (m)	Area (m²)							
0.000	960.0	1.200	1396.1							
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The Genesis Centre Science Park South Birchwood WA3 7BH		6196 - Longridge Network 1 Surface Water - 100yr+30%cc	
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Innovyze		Network 2019.1	

Summary Wizard of 15 minute 100 year Summer I+30% for NETWORK1-05.06.18.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 Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R 0.334
Region England and Wales Cv (Summer)	0.750	
M5-60 (mm)	18.500 Cv (Winter)	0.840

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960

Return Period(s) (years) 100

Climate Change (%) 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		(l/s)	Flow (l/s)	
1.000	1	2	83.710	0.160	0.000	0.60	28.5	SURCHARGED	
1.001	2	2	83.626	0.327	0.000	1.10	51.8	SURCHARGED	
1.002	3	2	83.368	0.278	0.000	1.09	61.3	SURCHARGED	
1.003	4	2	82.875	0.187	0.000	1.02	64.5	SURCHARGED	
1.004	5	2	82.658	0.214	0.000	1.42	87.5	SURCHARGED	
2.000	6	4	82.297	0.799	0.000	0.77	32.7	SURCHARGED	
2.001	7	4	82.224	0.866	0.000	0.46	40.5	SURCHARGED	
3.000	8	4	82.175	0.840	0.000	0.68	25.0	SURCHARGED	
2.002	9	4	82.112	0.908	0.000	1.15	62.7	SURCHARGED	
2.003	10	4	82.027	0.861	0.000	1.25	68.8	SURCHARGED	
1.005	11	4	81.949	0.823	0.000	1.46	133.9	SURCHARGED	
1.006	12	4	81.848	0.762	0.000	1.47	139.3	SURCHARGED	
1.007	13	4	81.745	0.706	0.000	1.18	164.8	SURCHARGED	
4.000	14	4	81.552	0.023	0.000	0.34	18.3	SURCHARGED	
4.001	15	4	81.523	0.295	0.000	0.30	15.7	SURCHARGED	

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Micro
Drainage

Summary Wizard of 15 minute 100 year Summer I+30% for NETWORK1-05.06.18.SWS

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
9.006	59	4	80.823	0.763	0.000	0.97		282.9	SURCHARGED
9.007	60	4	80.399	0.797	0.000	1.05		290.4	SURCHARGED
9.008	61	4	80.092	0.773	0.000	0.92		310.1	SURCHARGED
1.013	62	4	79.736	0.838	0.000	1.69		801.6	SURCHARGED
1.014	63	4	79.478	0.654	0.000	1.80		807.7	SURCHARGED
1.015	64	4	79.210	0.442	0.000	2.78		810.1	SURCHARGED
1.016	65	4	78.940	0.192	0.000	1.84		835.3	SURCHARGED
1.017	66	22	78.553	0.215	0.000	3.49		829.8	SURCHARGED
1.018	67	22	78.188	-0.119	0.000	0.51		94.8	OK
1.019	68	22	78.188	-0.097	0.000	0.24		82.0	OK
1.020	69	22	78.180	0.210	0.000	0.78		72.9	SURCHARGED

