

GTA Civils Ltd						Page 0					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.017 US/MH Headwall 3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.985	4.976	-0.900	0.0	0.0	230	5.184	5.178	-0.701	0.0	26.1
20	4.987	4.979	-0.898	0.0	0.1	240	5.198	5.192	-0.687	0.0	30.7
30	4.992	4.985	-0.893	0.0	0.3	250	5.213	5.208	-0.672	0.0	35.0
40	5.000	4.994	-0.885	0.0	0.7	260	5.229	5.224	-0.656	0.0	38.5
50	5.010	5.004	-0.875	0.0	1.1	270	5.246	5.242	-0.639	0.0	41.6
60	5.020	5.014	-0.865	0.0	1.7	280	5.265	5.261	-0.620	0.0	43.7
70	5.030	5.024	-0.855	0.0	2.4	290	5.285	5.282	-0.600	0.0	44.9
80	5.040	5.034	-0.845	0.0	3.0	300	5.306	5.304	-0.579	0.0	45.1
90	5.049	5.044	-0.836	0.0	3.6	310	5.328	5.326	-0.557	0.0	44.4
100	5.058	5.053	-0.827	0.0	4.2	320	5.351	5.349	-0.534	0.0	43.0
110	5.067	5.061	-0.818	0.0	4.7	330	5.372	5.370	-0.513	0.0	40.9
120	5.075	5.069	-0.810	0.0	5.3	340	5.392	5.391	-0.493	0.0	37.9
130	5.083	5.077	-0.802	0.0	6.2	350	5.411	5.410	-0.474	0.0	34.1
140	5.090	5.085	-0.795	0.0	7.5	360	5.428	5.427	-0.457	0.0	31.4
150	5.097	5.091	-0.788	0.0	8.8	370	5.443	5.442	-0.442	0.0	28.9
160	5.104	5.098	-0.781	0.0	10.1	380	5.457	5.455	-0.428	0.0	26.9
170	5.112	5.106	-0.773	0.0	11.6	390	5.468	5.467	-0.417	0.0	25.0
180	5.120	5.115	-0.765	0.0	13.2	400	5.478	5.476	-0.407	0.0	23.1
190	5.130	5.124	-0.755	0.0	15.0	410	5.487	5.485	-0.398	0.0	21.5
200	5.142	5.136	-0.743	0.0	17.1	420	5.494	5.492	-0.391	0.0	19.9
210	5.155	5.149	-0.730	0.0	19.5	430	5.500	5.499	-0.385	0.0	18.4
220	5.169	5.163	-0.716	0.0	22.3	440	5.506	5.504	-0.379	0.0	16.8
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GTA Civils Ltd						Page 1					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.510	5.508	-0.375	0.0	15.5	670	5.519	5.519	-0.366	0.0	4.0
460	5.513	5.512	-0.372	0.0	14.3	680	5.517	5.517	-0.368	0.0	4.3
470	5.516	5.515	-0.369	0.0	13.2	690	5.515	5.515	-0.370	0.0	4.3
480	5.519	5.517	-0.366	0.0	12.2	700	5.513	5.513	-0.372	0.0	4.2
490	5.521	5.520	-0.364	0.0	11.5	710	5.511	5.511	-0.374	0.0	3.9
500	5.522	5.522	-0.363	0.0	10.9	720	5.508	5.508	-0.377	0.0	4.2
510	5.524	5.523	-0.361	0.0	10.5	730	5.506	5.506	-0.379	0.0	4.0
520	5.526	5.525	-0.359	0.0	10.2	740	5.504	5.504	-0.381	0.0	4.2
530	5.528	5.527	-0.357	0.0	10.1	750	5.502	5.502	-0.383	0.0	4.2
540	5.530	5.529	-0.355	0.0	10.1	760	5.500	5.499	-0.385	0.0	4.2
550	5.532	5.531	-0.353	0.0	10.0	770	5.497	5.497	-0.388	0.0	4.1
560	5.533	5.532	-0.352	0.0	9.9	780	5.495	5.495	-0.390	0.0	4.0
570	5.535	5.534	-0.350	0.0	9.7	790	5.493	5.493	-0.392	0.0	4.2
580	5.535	5.535	-0.350	0.0	9.3	800	5.491	5.490	-0.394	0.0	4.2
590	5.536	5.535	-0.349	0.0	8.6	810	5.488	5.488	-0.397	0.0	4.1
600	5.535	5.534	-0.350	0.0	7.4	820	5.486	5.486	-0.399	0.0	4.1
610	5.533	5.532	-0.352	0.0	5.8	830	5.484	5.484	-0.401	0.0	4.1
620	5.530	5.530	-0.355	0.0	4.7	840	5.482	5.481	-0.403	0.0	4.1
630	5.528	5.528	-0.357	0.0	4.4	850	5.479	5.479	-0.406	0.0	4.1
640	5.526	5.526	-0.359	0.0	4.3	860	5.477	5.477	-0.408	0.0	3.9
650	5.524	5.524	-0.361	0.0	4.0	870	5.475	5.475	-0.410	0.0	4.1
660	5.522	5.521	-0.363	0.0	4.3	880	5.473	5.473	-0.412	0.0	3.9
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GTA Civils Ltd						Page 3					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.367	5.367	-0.518	0.0	4.0	1550	5.311	5.311	-0.574	0.0	3.9
1340	5.364	5.364	-0.521	0.0	4.0	1560	5.309	5.309	-0.576	0.0	3.9
1350	5.362	5.362	-0.523	0.0	4.0	1570	5.306	5.306	-0.579	0.0	3.9
1360	5.360	5.360	-0.525	0.0	3.9	1580	5.304	5.303	-0.581	0.0	3.9
1370	5.357	5.357	-0.528	0.0	4.1	1590	5.301	5.301	-0.584	0.0	3.9
1380	5.354	5.354	-0.531	0.0	4.0	1600	5.298	5.298	-0.587	0.0	3.9
1390	5.352	5.352	-0.533	0.0	4.0	1610	5.296	5.296	-0.589	0.0	4.0
1400	5.350	5.349	-0.535	0.0	3.9	1620	5.293	5.293	-0.592	0.0	3.9
1410	5.347	5.347	-0.538	0.0	3.9	1630	5.291	5.290	-0.594	0.0	3.9
1420	5.344	5.344	-0.541	0.0	4.0	1640	5.288	5.288	-0.597	0.0	3.9
1430	5.342	5.342	-0.543	0.0	4.0	1650	5.285	5.285	-0.600	0.0	3.9
1440	5.339	5.339	-0.546	0.0	4.0	1660	5.283	5.283	-0.602	0.0	3.9
1450	5.337	5.337	-0.548	0.0	4.0	1670	5.280	5.280	-0.605	0.0	3.9
1460	5.334	5.334	-0.551	0.0	4.0	1680	5.277	5.277	-0.608	0.0	3.9
1470	5.332	5.332	-0.553	0.0	4.0	1690	5.275	5.275	-0.610	0.0	3.9
1480	5.329	5.329	-0.556	0.0	4.0	1700	5.272	5.272	-0.613	0.0	3.9
1490	5.327	5.327	-0.558	0.0	4.0	1710	5.269	5.269	-0.616	0.0	3.8
1500	5.324	5.324	-0.561	0.0	4.0	1720	5.267	5.267	-0.618	0.0	3.9
1510	5.322	5.322	-0.563	0.0	3.9	1730	5.264	5.264	-0.621	0.0	3.9
1520	5.319	5.319	-0.566	0.0	3.9	1740	5.261	5.261	-0.624	0.0	3.8
1530	5.317	5.316	-0.568	0.0	3.9	1750	5.259	5.258	-0.626	0.0	3.9
1540	5.314	5.314	-0.571	0.0	3.9	1760	5.256	5.256	-0.629	0.0	3.9
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GTA Civils Ltd		Page 4
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
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Flows and Levels for Pipe 1.017 US/MH Headwall 3 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.253	5.253	-0.632	0.0	3.8	1890	5.220	5.220	-0.665	0.0	3.8
1780	5.250	5.250	-0.635	0.0	3.8	1900	5.217	5.217	-0.668	0.0	3.8
1790	5.248	5.248	-0.637	0.0	3.9	1910	5.215	5.214	-0.670	0.0	3.8
1800	5.245	5.245	-0.640	0.0	3.9	1920	5.212	5.212	-0.673	0.0	3.8
1810	5.242	5.242	-0.643	0.0	3.9	1930	5.209	5.209	-0.676	0.0	3.8
1820	5.240	5.239	-0.645	0.0	3.8	1940	5.206	5.206	-0.679	0.0	3.8
1830	5.237	5.237	-0.648	0.0	3.8	1950	5.203	5.203	-0.682	0.0	3.8
1840	5.234	5.234	-0.651	0.0	3.8	1960	5.200	5.200	-0.685	0.0	3.8
1850	5.231	5.231	-0.654	0.0	3.8	1970	5.198	5.198	-0.687	0.0	3.8
1860	5.229	5.228	-0.656	0.0	3.8	1980	5.195	5.195	-0.690	0.0	3.7
1870	5.226	5.226	-0.659	0.0	3.8	1990	5.192	5.192	-0.693	0.0	3.7
1880	5.223	5.223	-0.662	0.0	3.8	2000	5.189	5.189	-0.696	0.0	3.7

GTA Civils Ltd						Page 5					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
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<u>Flows and Levels for Pipe 1.018 US/MH SWMH1.17 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.976	4.965	-0.899	0.0	0.0	230	5.178	5.156	-0.697	0.0	25.9
20	4.979	4.968	-0.896	0.0	0.1	240	5.192	5.170	-0.683	0.0	30.5
30	4.985	4.973	-0.890	0.0	0.3	250	5.208	5.186	-0.667	0.0	34.8
40	4.994	4.980	-0.881	0.0	0.6	260	5.224	5.204	-0.651	0.0	38.3
50	5.004	4.989	-0.871	0.0	1.1	270	5.242	5.223	-0.633	0.0	41.4
60	5.014	4.997	-0.861	0.0	1.7	280	5.261	5.246	-0.614	0.0	43.5
70	5.024	5.005	-0.851	0.0	2.3	290	5.282	5.270	-0.593	0.0	44.7
80	5.034	5.014	-0.841	0.0	2.9	300	5.304	5.295	-0.571	0.0	44.9
90	5.044	5.023	-0.831	0.0	3.5	310	5.326	5.319	-0.549	0.0	44.2
100	5.053	5.031	-0.822	0.0	4.1	320	5.349	5.344	-0.526	0.0	42.8
110	5.061	5.039	-0.814	0.0	4.6	330	5.370	5.366	-0.505	0.0	40.8
120	5.069	5.049	-0.806	0.0	5.2	340	5.391	5.387	-0.484	0.0	37.7
130	5.077	5.059	-0.798	0.0	6.1	350	5.410	5.406	-0.465	0.0	34.0
140	5.085	5.065	-0.790	0.0	7.4	360	5.427	5.423	-0.448	0.0	31.3
150	5.091	5.072	-0.784	0.0	8.7	370	5.442	5.438	-0.433	0.0	28.8
160	5.098	5.078	-0.777	0.0	10.1	380	5.455	5.452	-0.420	0.0	26.8
170	5.106	5.085	-0.769	0.0	11.5	390	5.467	5.463	-0.408	0.0	24.9
180	5.115	5.093	-0.760	0.0	13.1	400	5.476	5.473	-0.399	0.0	23.0
190	5.124	5.102	-0.751	0.0	14.9	410	5.485	5.482	-0.390	0.0	21.4
200	5.136	5.114	-0.739	0.0	16.9	420	5.492	5.490	-0.383	0.0	19.8
210	5.149	5.126	-0.726	0.0	19.4	430	5.499	5.496	-0.376	0.0	18.3
220	5.163	5.141	-0.712	0.0	22.2	440	5.504	5.502	-0.371	0.0	16.8
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GTA Civils Ltd						Page 6					
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450	5.508	5.507	-0.367	0.0	15.5	670	5.519	5.519	-0.356	0.0	4.1
460	5.512	5.510	-0.363	0.0	14.3	680	5.517	5.517	-0.358	0.0	4.3
470	5.515	5.514	-0.360	0.0	13.2	690	5.515	5.514	-0.360	0.0	4.3
480	5.517	5.516	-0.358	0.0	12.2	700	5.513	5.512	-0.362	0.0	4.2
490	5.520	5.519	-0.355	0.0	11.5	710	5.511	5.510	-0.364	0.0	4.0
500	5.522	5.521	-0.353	0.0	10.9	720	5.508	5.508	-0.367	0.0	4.3
510	5.523	5.523	-0.352	0.0	10.4	730	5.506	5.506	-0.369	0.0	4.1
520	5.525	5.524	-0.350	0.0	10.2	740	5.504	5.504	-0.371	0.0	4.2
530	5.527	5.526	-0.348	0.0	10.1	750	5.502	5.501	-0.373	0.0	4.2
540	5.529	5.528	-0.346	0.0	10.1	760	5.499	5.499	-0.376	0.0	4.2
550	5.531	5.530	-0.344	0.0	10.0	770	5.497	5.497	-0.378	0.0	4.2
560	5.532	5.532	-0.343	0.0	9.9	780	5.495	5.495	-0.380	0.0	4.0
570	5.534	5.533	-0.341	0.0	9.7	790	5.493	5.492	-0.382	0.0	4.2
580	5.535	5.534	-0.340	0.0	9.3	800	5.490	5.490	-0.385	0.0	4.2
590	5.535	5.535	-0.340	0.0	8.6	810	5.488	5.488	-0.387	0.0	4.2
600	5.534	5.534	-0.341	0.0	7.4	820	5.486	5.486	-0.389	0.0	4.1
610	5.532	5.532	-0.343	0.0	5.8	830	5.484	5.483	-0.391	0.0	4.1
620	5.530	5.530	-0.345	0.0	4.7	840	5.481	5.481	-0.394	0.0	4.1
630	5.528	5.528	-0.347	0.0	4.5	850	5.479	5.479	-0.396	0.0	4.1
640	5.526	5.525	-0.349	0.0	4.3	860	5.477	5.477	-0.398	0.0	4.0
650	5.524	5.523	-0.351	0.0	4.0	870	5.475	5.475	-0.400	0.0	4.2
660	5.521	5.521	-0.354	0.0	4.3	880	5.473	5.473	-0.402	0.0	4.0
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GTA Civils Ltd						Page 7					
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890	5.470	5.470	-0.405	0.0	4.1	1110	5.420	5.420	-0.455	0.0	4.1
900	5.468	5.468	-0.407	0.0	4.0	1120	5.417	5.417	-0.458	0.0	4.1
910	5.466	5.466	-0.409	0.0	4.2	1130	5.415	5.415	-0.460	0.0	4.1
920	5.463	5.463	-0.412	0.0	4.2	1140	5.413	5.413	-0.462	0.0	4.1
930	5.461	5.461	-0.414	0.0	4.1	1150	5.410	5.410	-0.465	0.0	4.1
940	5.459	5.459	-0.416	0.0	4.1	1160	5.408	5.408	-0.467	0.0	4.1
950	5.457	5.456	-0.418	0.0	4.1	1170	5.406	5.406	-0.469	0.0	3.9
960	5.454	5.454	-0.421	0.0	4.1	1180	5.403	5.403	-0.472	0.0	4.2
970	5.452	5.452	-0.423	0.0	4.1	1190	5.401	5.401	-0.474	0.0	4.1
980	5.450	5.450	-0.425	0.0	4.0	1200	5.398	5.398	-0.477	0.0	4.1
990	5.448	5.447	-0.427	0.0	4.0	1210	5.396	5.396	-0.479	0.0	4.0
1000	5.445	5.445	-0.430	0.0	4.1	1220	5.394	5.393	-0.481	0.0	4.1
1010	5.443	5.443	-0.432	0.0	4.1	1230	5.391	5.391	-0.484	0.0	4.1
1020	5.441	5.441	-0.434	0.0	4.1	1240	5.389	5.389	-0.486	0.0	4.0
1030	5.438	5.438	-0.437	0.0	4.1	1250	5.386	5.386	-0.489	0.0	4.0
1040	5.436	5.436	-0.439	0.0	4.1	1260	5.384	5.384	-0.491	0.0	4.0
1050	5.434	5.434	-0.441	0.0	4.1	1270	5.381	5.381	-0.494	0.0	4.0
1060	5.431	5.431	-0.444	0.0	4.1	1280	5.379	5.379	-0.496	0.0	4.0
1070	5.429	5.429	-0.446	0.0	4.1	1290	5.377	5.376	-0.498	0.0	4.0
1080	5.427	5.427	-0.448	0.0	4.2	1300	5.374	5.374	-0.501	0.0	3.9
1090	5.424	5.424	-0.451	0.0	4.1	1310	5.372	5.372	-0.503	0.0	4.0
1100	5.422	5.422	-0.453	0.0	4.1	1320	5.369	5.369	-0.506	0.0	4.0
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GTA Civils Ltd						Page 8					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.018 US/MH SWMH1.17 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.367	5.367	-0.508	0.0	4.0	1550	5.311	5.311	-0.564	0.0	4.0
1340	5.364	5.364	-0.511	0.0	4.0	1560	5.309	5.309	-0.566	0.0	4.0
1350	5.362	5.362	-0.513	0.0	4.0	1570	5.306	5.306	-0.569	0.0	4.0
1360	5.360	5.359	-0.515	0.0	3.9	1580	5.303	5.303	-0.572	0.0	4.0
1370	5.357	5.357	-0.518	0.0	4.1	1590	5.301	5.301	-0.574	0.0	4.0
1380	5.354	5.354	-0.521	0.0	4.0	1600	5.298	5.298	-0.577	0.0	3.9
1390	5.352	5.352	-0.523	0.0	4.0	1610	5.296	5.296	-0.579	0.0	4.0
1400	5.349	5.349	-0.526	0.0	3.9	1620	5.293	5.293	-0.582	0.0	3.9
1410	5.347	5.347	-0.528	0.0	4.0	1630	5.290	5.290	-0.585	0.0	3.9
1420	5.344	5.344	-0.531	0.0	4.0	1640	5.288	5.288	-0.587	0.0	3.9
1430	5.342	5.342	-0.533	0.0	4.0	1650	5.285	5.285	-0.590	0.0	3.9
1440	5.339	5.339	-0.536	0.0	4.0	1660	5.283	5.282	-0.592	0.0	3.9
1450	5.337	5.337	-0.538	0.0	4.0	1670	5.280	5.280	-0.595	0.0	3.9
1460	5.334	5.334	-0.541	0.0	4.0	1680	5.277	5.277	-0.598	0.0	3.9
1470	5.332	5.332	-0.543	0.0	4.0	1690	5.275	5.274	-0.600	0.0	3.9
1480	5.329	5.329	-0.546	0.0	4.0	1700	5.272	5.272	-0.603	0.0	3.9
1490	5.327	5.326	-0.548	0.0	4.0	1710	5.269	5.269	-0.606	0.0	3.9
1500	5.324	5.324	-0.551	0.0	4.0	1720	5.267	5.266	-0.608	0.0	3.9
1510	5.322	5.321	-0.553	0.0	4.0	1730	5.264	5.264	-0.611	0.0	3.9
1520	5.319	5.319	-0.556	0.0	4.0	1740	5.261	5.261	-0.614	0.0	3.9
1530	5.316	5.316	-0.559	0.0	4.0	1750	5.258	5.258	-0.617	0.0	3.9
1540	5.314	5.314	-0.561	0.0	4.0	1760	5.256	5.256	-0.619	0.0	3.9
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GTA Civils Ltd		Page 9
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.018 US/MH SWMH1.17 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.253	5.253	-0.622	0.0	3.9	1890	5.220	5.220	-0.655	0.0	3.8
1780	5.250	5.250	-0.625	0.0	3.9	1900	5.217	5.217	-0.658	0.0	3.8
1790	5.248	5.247	-0.627	0.0	3.9	1910	5.214	5.214	-0.661	0.0	3.8
1800	5.245	5.245	-0.630	0.0	3.9	1920	5.212	5.211	-0.663	0.0	3.8
1810	5.242	5.242	-0.633	0.0	3.9	1930	5.209	5.209	-0.666	0.0	3.8
1820	5.239	5.239	-0.636	0.0	3.9	1940	5.206	5.206	-0.669	0.0	3.8
1830	5.237	5.236	-0.638	0.0	3.9	1950	5.203	5.203	-0.672	0.0	3.8
1840	5.234	5.234	-0.641	0.0	3.9	1960	5.200	5.200	-0.675	0.0	3.8
1850	5.231	5.231	-0.644	0.0	3.9	1970	5.198	5.197	-0.677	0.0	3.8
1860	5.228	5.228	-0.647	0.0	3.9	1980	5.195	5.194	-0.680	0.0	3.8
1870	5.226	5.225	-0.649	0.0	3.9	1990	5.192	5.192	-0.683	0.0	3.8
1880	5.223	5.223	-0.652	0.0	3.9	2000	5.189	5.189	-0.686	0.0	3.8

GTA Civils Ltd						Page 10					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.019 US/MH Headwall 4 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.965	4.945	-0.900	0.0	0.0	230	5.156	5.097	-0.709	0.0	25.6
20	4.968	4.946	-0.897	0.0	0.1	240	5.170	5.116	-0.695	0.0	30.2
30	4.973	4.946	-0.892	0.0	0.2	250	5.186	5.137	-0.679	0.0	34.4
40	4.980	4.948	-0.885	0.0	0.6	260	5.204	5.160	-0.661	0.0	37.9
50	4.989	4.950	-0.876	0.0	1.0	270	5.223	5.186	-0.642	0.0	41.0
60	4.997	4.952	-0.868	0.0	1.6	280	5.246	5.216	-0.619	0.0	43.1
70	5.005	4.956	-0.860	0.0	2.2	290	5.270	5.248	-0.595	0.0	44.3
80	5.014	4.960	-0.851	0.0	2.8	300	5.295	5.279	-0.570	0.0	44.4
90	5.023	4.965	-0.842	0.0	3.4	310	5.319	5.307	-0.546	0.0	43.8
100	5.031	4.970	-0.834	0.0	4.0	320	5.344	5.335	-0.521	0.0	42.4
110	5.039	4.975	-0.826	0.0	4.5	330	5.366	5.360	-0.499	0.0	40.4
120	5.049	4.980	-0.816	0.0	5.1	340	5.387	5.383	-0.478	0.0	37.4
130	5.059	4.986	-0.806	0.0	6.0	350	5.406	5.402	-0.459	0.0	33.7
140	5.065	4.994	-0.800	0.0	7.3	360	5.423	5.419	-0.442	0.0	31.0
150	5.072	5.003	-0.793	0.0	8.6	370	5.438	5.434	-0.427	0.0	28.6
160	5.078	5.013	-0.787	0.0	9.9	380	5.452	5.447	-0.413	0.0	26.6
170	5.085	5.024	-0.780	0.0	11.3	390	5.463	5.460	-0.402	0.0	24.7
180	5.093	5.035	-0.772	0.0	12.9	400	5.473	5.470	-0.392	0.0	22.9
190	5.102	5.047	-0.763	0.0	14.6	410	5.482	5.479	-0.383	0.0	21.3
200	5.114	5.058	-0.751	0.0	16.8	420	5.490	5.487	-0.375	0.0	19.7
210	5.126	5.069	-0.739	0.0	19.2	430	5.496	5.494	-0.369	0.0	18.2
220	5.141	5.081	-0.724	0.0	21.9	440	5.502	5.500	-0.363	0.0	16.7
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GTA Civils Ltd						Page 11					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.019 US/MH Headwall 4 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.507	5.505	-0.358	0.0	15.4	670	5.519	5.519	-0.346	0.0	4.1
460	5.510	5.509	-0.355	0.0	14.3	680	5.517	5.517	-0.348	0.0	4.3
470	5.514	5.512	-0.351	0.0	13.1	690	5.514	5.514	-0.351	0.0	4.3
480	5.516	5.515	-0.349	0.0	12.2	700	5.512	5.512	-0.353	0.0	4.2
490	5.519	5.518	-0.346	0.0	11.4	710	5.510	5.510	-0.355	0.0	4.0
500	5.521	5.520	-0.344	0.0	10.8	720	5.508	5.508	-0.357	0.0	4.3
510	5.523	5.522	-0.342	0.0	10.4	730	5.506	5.506	-0.359	0.0	4.1
520	5.524	5.524	-0.341	0.0	10.2	740	5.504	5.503	-0.361	0.0	4.2
530	5.526	5.525	-0.339	0.0	10.1	750	5.501	5.501	-0.364	0.0	4.3
540	5.528	5.527	-0.337	0.0	10.0	760	5.499	5.499	-0.366	0.0	4.2
550	5.530	5.529	-0.335	0.0	10.0	770	5.497	5.497	-0.368	0.0	4.2
560	5.532	5.531	-0.333	0.0	9.8	780	5.495	5.495	-0.370	0.0	4.1
570	5.533	5.532	-0.332	0.0	9.7	790	5.492	5.492	-0.373	0.0	4.2
580	5.534	5.533	-0.331	0.0	9.3	800	5.490	5.490	-0.375	0.0	4.3
590	5.535	5.534	-0.330	0.0	8.6	810	5.488	5.488	-0.377	0.0	4.2
600	5.534	5.533	-0.331	0.0	7.5	820	5.486	5.486	-0.379	0.0	4.2
610	5.532	5.532	-0.333	0.0	5.9	830	5.483	5.483	-0.382	0.0	4.2
620	5.530	5.530	-0.335	0.0	4.8	840	5.481	5.481	-0.384	0.0	4.2
630	5.528	5.527	-0.337	0.0	4.5	850	5.479	5.479	-0.386	0.0	4.1
640	5.525	5.525	-0.340	0.0	4.3	860	5.477	5.477	-0.388	0.0	4.0
650	5.523	5.523	-0.342	0.0	4.1	870	5.475	5.474	-0.390	0.0	4.2
660	5.521	5.521	-0.344	0.0	4.3	880	5.473	5.472	-0.392	0.0	4.0
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GTA Civils Ltd						Page 12					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 1.019 US/MH Headwall 4 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.470	5.470	-0.395	0.0	4.2	1110	5.420	5.419	-0.445	0.0	4.1
900	5.468	5.468	-0.397	0.0	4.0	1120	5.417	5.417	-0.448	0.0	4.1
910	5.466	5.465	-0.399	0.0	4.3	1130	5.415	5.415	-0.450	0.0	4.1
920	5.463	5.463	-0.402	0.0	4.2	1140	5.413	5.412	-0.452	0.0	4.1
930	5.461	5.461	-0.404	0.0	4.2	1150	5.410	5.410	-0.455	0.0	4.1
940	5.459	5.459	-0.406	0.0	4.2	1160	5.408	5.408	-0.457	0.0	4.1
950	5.456	5.456	-0.409	0.0	4.2	1170	5.406	5.405	-0.459	0.0	4.0
960	5.454	5.454	-0.411	0.0	4.2	1180	5.403	5.403	-0.462	0.0	4.2
970	5.452	5.452	-0.413	0.0	4.2	1190	5.401	5.400	-0.464	0.0	4.2
980	5.450	5.450	-0.415	0.0	4.0	1200	5.398	5.398	-0.467	0.0	4.1
990	5.447	5.447	-0.418	0.0	4.0	1210	5.396	5.396	-0.469	0.0	4.0
1000	5.445	5.445	-0.420	0.0	4.1	1220	5.393	5.393	-0.472	0.0	4.2
1010	5.443	5.443	-0.422	0.0	4.2	1230	5.391	5.391	-0.474	0.0	4.1
1020	5.441	5.440	-0.424	0.0	4.1	1240	5.389	5.389	-0.476	0.0	4.0
1030	5.438	5.438	-0.427	0.0	4.1	1250	5.386	5.386	-0.479	0.0	4.1
1040	5.436	5.436	-0.429	0.0	4.2	1260	5.384	5.384	-0.481	0.0	4.1
1050	5.434	5.434	-0.431	0.0	4.1	1270	5.381	5.381	-0.484	0.0	4.1
1060	5.431	5.431	-0.434	0.0	4.2	1280	5.379	5.379	-0.486	0.0	4.1
1070	5.429	5.429	-0.436	0.0	4.1	1290	5.376	5.376	-0.489	0.0	4.1
1080	5.427	5.427	-0.438	0.0	4.2	1300	5.374	5.374	-0.491	0.0	3.9
1090	5.424	5.424	-0.441	0.0	4.1	1310	5.372	5.371	-0.493	0.0	4.1
1100	5.422	5.422	-0.443	0.0	4.2	1320	5.369	5.369	-0.496	0.0	4.1
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GTA Civils Ltd						Page 13					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.019 US/MH Headwall 4 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.367	5.367	-0.498	0.0	4.0	1550	5.311	5.311	-0.554	0.0	4.0
1340	5.364	5.364	-0.501	0.0	4.0	1560	5.309	5.308	-0.556	0.0	4.0
1350	5.362	5.362	-0.503	0.0	4.0	1570	5.306	5.306	-0.559	0.0	4.0
1360	5.359	5.359	-0.506	0.0	3.9	1580	5.303	5.303	-0.562	0.0	4.0
1370	5.357	5.356	-0.508	0.0	4.1	1590	5.301	5.301	-0.564	0.0	4.0
1380	5.354	5.354	-0.511	0.0	4.1	1600	5.298	5.298	-0.567	0.0	4.0
1390	5.352	5.352	-0.513	0.0	4.0	1610	5.296	5.295	-0.569	0.0	4.0
1400	5.349	5.349	-0.516	0.0	4.0	1620	5.293	5.293	-0.572	0.0	4.0
1410	5.347	5.347	-0.518	0.0	4.0	1630	5.290	5.290	-0.575	0.0	4.0
1420	5.344	5.344	-0.521	0.0	4.0	1640	5.288	5.288	-0.577	0.0	4.0
1430	5.342	5.342	-0.523	0.0	4.1	1650	5.285	5.285	-0.580	0.0	4.0
1440	5.339	5.339	-0.526	0.0	4.0	1660	5.282	5.282	-0.583	0.0	4.0
1450	5.337	5.337	-0.528	0.0	4.0	1670	5.280	5.280	-0.585	0.0	4.0
1460	5.334	5.334	-0.531	0.0	4.0	1680	5.277	5.277	-0.588	0.0	3.9
1470	5.332	5.331	-0.533	0.0	4.1	1690	5.274	5.274	-0.591	0.0	4.0
1480	5.329	5.329	-0.536	0.0	4.0	1700	5.272	5.272	-0.593	0.0	3.9
1490	5.326	5.326	-0.539	0.0	4.0	1710	5.269	5.269	-0.596	0.0	3.9
1500	5.324	5.324	-0.541	0.0	4.0	1720	5.266	5.266	-0.599	0.0	3.9
1510	5.321	5.321	-0.544	0.0	4.0	1730	5.264	5.264	-0.601	0.0	3.9
1520	5.319	5.319	-0.546	0.0	4.0	1740	5.261	5.261	-0.604	0.0	3.9
1530	5.316	5.316	-0.549	0.0	4.0	1750	5.258	5.258	-0.607	0.0	3.9
1540	5.314	5.314	-0.551	0.0	4.0	1760	5.256	5.255	-0.609	0.0	3.9
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GTA Civils Ltd		Page 14
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.019 US/MH Headwall 4 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.253	5.253	-0.612	0.0	3.9	1890	5.220	5.219	-0.645	0.0	3.9
1780	5.250	5.250	-0.615	0.0	3.9	1900	5.217	5.217	-0.648	0.0	3.9
1790	5.247	5.247	-0.618	0.0	3.9	1910	5.214	5.214	-0.651	0.0	3.9
1800	5.245	5.244	-0.620	0.0	3.9	1920	5.211	5.211	-0.654	0.0	3.9
1810	5.242	5.242	-0.623	0.0	3.9	1930	5.209	5.208	-0.656	0.0	3.9
1820	5.239	5.239	-0.626	0.0	3.9	1940	5.206	5.205	-0.659	0.0	3.8
1830	5.236	5.236	-0.629	0.0	3.9	1950	5.203	5.202	-0.662	0.0	3.8
1840	5.234	5.233	-0.631	0.0	3.9	1960	5.200	5.200	-0.665	0.0	3.8
1850	5.231	5.231	-0.634	0.0	3.9	1970	5.197	5.197	-0.668	0.0	3.8
1860	5.228	5.228	-0.637	0.0	3.9	1980	5.194	5.194	-0.671	0.0	3.8
1870	5.225	5.225	-0.640	0.0	3.9	1990	5.192	5.191	-0.673	0.0	3.8
1880	5.223	5.222	-0.642	0.0	3.9	2000	5.189	5.188	-0.676	0.0	3.8

GTA Civils Ltd						Page 15					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.020 US/MH Headwall 5 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.945	4.930	-0.900	0.0	0.0	230	5.097	5.087	-0.748	0.0	18.0
20	4.946	4.931	-0.899	0.0	0.0	240	5.116	5.107	-0.729	0.0	20.2
30	4.946	4.932	-0.899	0.0	0.1	250	5.137	5.130	-0.708	0.0	23.3
40	4.948	4.933	-0.897	0.0	0.2	260	5.160	5.155	-0.685	0.0	26.0
50	4.950	4.935	-0.895	0.0	0.3	270	5.186	5.183	-0.659	0.0	27.0
60	4.952	4.938	-0.893	0.0	0.5	280	5.216	5.214	-0.629	0.0	25.9
70	4.956	4.942	-0.889	0.0	0.7	290	5.248	5.247	-0.597	0.0	25.9
80	4.960	4.946	-0.885	0.0	1.0	300	5.279	5.277	-0.566	0.0	26.7
90	4.965	4.951	-0.880	0.0	1.4	310	5.307	5.306	-0.538	0.0	26.5
100	4.970	4.956	-0.875	0.0	1.8	320	5.335	5.334	-0.510	0.0	26.0
110	4.975	4.961	-0.870	0.0	2.2	330	5.360	5.359	-0.485	0.0	25.1
120	4.980	4.967	-0.865	0.0	2.6	340	5.383	5.381	-0.462	0.0	23.8
130	4.986	4.973	-0.859	0.0	3.0	350	5.402	5.400	-0.443	0.0	22.0
140	4.994	4.980	-0.851	0.0	3.6	360	5.419	5.417	-0.426	0.0	20.5
150	5.003	4.989	-0.842	0.0	4.3	370	5.434	5.432	-0.411	0.0	19.2
160	5.013	4.998	-0.832	0.0	5.1	380	5.447	5.446	-0.398	0.0	18.1
170	5.024	5.009	-0.821	0.0	6.0	390	5.460	5.458	-0.385	0.0	17.2
180	5.035	5.021	-0.810	0.0	6.9	400	5.470	5.468	-0.375	0.0	16.3
190	5.047	5.033	-0.798	0.0	9.0	410	5.479	5.478	-0.366	0.0	15.5
200	5.058	5.044	-0.787	0.0	11.7	420	5.487	5.486	-0.358	0.0	14.7
210	5.069	5.057	-0.776	0.0	14.0	430	5.494	5.492	-0.351	0.0	13.9
220	5.081	5.070	-0.764	0.0	16.0	440	5.500	5.499	-0.345	0.0	13.1
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GTA Civils Ltd						Page 16					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.020 US/MH Headwall 5 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.505	5.504	-0.340	0.0	12.4	670	5.519	5.517	-0.326	0.0	5.5
460	5.509	5.507	-0.336	0.0	11.6	680	5.517	5.516	-0.328	0.0	6.2
470	5.512	5.511	-0.333	0.0	11.0	690	5.514	5.514	-0.331	0.0	6.0
480	5.515	5.514	-0.330	0.0	10.5	700	5.512	5.512	-0.333	0.0	5.9
490	5.518	5.517	-0.327	0.0	10.0	710	5.510	5.511	-0.335	0.0	5.5
500	5.520	5.519	-0.325	0.0	9.6	720	5.508	5.507	-0.337	0.0	6.2
510	5.522	5.521	-0.323	0.0	9.3	730	5.506	5.504	-0.339	0.0	5.5
520	5.524	5.523	-0.321	0.0	9.2	740	5.503	5.503	-0.342	0.0	6.2
530	5.525	5.525	-0.320	0.0	9.1	750	5.501	5.501	-0.344	0.0	6.0
540	5.527	5.527	-0.318	0.0	9.0	760	5.499	5.499	-0.346	0.0	5.9
550	5.529	5.527	-0.316	0.0	8.9	770	5.497	5.496	-0.348	0.0	5.9
560	5.531	5.530	-0.314	0.0	8.9	780	5.495	5.495	-0.350	0.0	5.6
570	5.532	5.532	-0.313	0.0	8.9	790	5.492	5.492	-0.353	0.0	6.1
580	5.533	5.533	-0.312	0.0	8.7	800	5.490	5.490	-0.355	0.0	6.0
590	5.534	5.533	-0.311	0.0	8.4	810	5.488	5.488	-0.357	0.0	5.9
600	5.533	5.533	-0.312	0.0	8.0	820	5.486	5.486	-0.359	0.0	5.9
610	5.532	5.531	-0.313	0.0	7.2	830	5.483	5.483	-0.362	0.0	5.9
620	5.530	5.529	-0.315	0.0	6.5	840	5.481	5.481	-0.364	0.0	5.8
630	5.527	5.527	-0.318	0.0	6.1	850	5.479	5.478	-0.366	0.0	5.8
640	5.525	5.525	-0.320	0.0	6.0	860	5.477	5.476	-0.368	0.0	5.5
650	5.523	5.522	-0.322	0.0	5.5	870	5.474	5.474	-0.371	0.0	6.0
660	5.521	5.521	-0.324	0.0	6.1	880	5.472	5.470	-0.373	0.0	5.4
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GTA Civils Ltd						Page 17					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.020 US/MH Headwall 5 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.470	5.469	-0.375	0.0	6.0	1110	5.419	5.419	-0.426	0.0	5.9
900	5.468	5.467	-0.377	0.0	5.5	1120	5.417	5.416	-0.428	0.0	5.8
910	5.465	5.465	-0.380	0.0	6.2	1130	5.415	5.414	-0.430	0.0	5.8
920	5.463	5.463	-0.382	0.0	5.9	1140	5.412	5.412	-0.433	0.0	5.8
930	5.461	5.460	-0.384	0.0	5.8	1150	5.410	5.410	-0.435	0.0	5.8
940	5.459	5.458	-0.386	0.0	5.8	1160	5.408	5.408	-0.437	0.0	5.8
950	5.456	5.456	-0.389	0.0	5.9	1170	5.405	5.406	-0.440	0.0	5.6
960	5.454	5.453	-0.391	0.0	5.8	1180	5.403	5.403	-0.442	0.0	6.1
970	5.452	5.452	-0.393	0.0	5.9	1190	5.400	5.401	-0.445	0.0	5.8
980	5.450	5.449	-0.395	0.0	5.6	1200	5.398	5.398	-0.447	0.0	5.8
990	5.447	5.447	-0.398	0.0	5.7	1210	5.396	5.395	-0.449	0.0	5.6
1000	5.445	5.443	-0.400	0.0	5.7	1220	5.393	5.393	-0.452	0.0	6.0
1010	5.443	5.441	-0.402	0.0	5.9	1230	5.391	5.391	-0.454	0.0	5.8
1020	5.440	5.438	-0.405	0.0	5.7	1240	5.389	5.387	-0.456	0.0	5.6
1030	5.438	5.436	-0.407	0.0	5.8	1250	5.386	5.386	-0.459	0.0	5.8
1040	5.436	5.434	-0.409	0.0	5.9	1260	5.384	5.383	-0.461	0.0	5.8
1050	5.434	5.434	-0.411	0.0	5.9	1270	5.381	5.380	-0.464	0.0	5.8
1060	5.431	5.430	-0.414	0.0	5.8	1280	5.379	5.378	-0.466	0.0	5.8
1070	5.429	5.428	-0.416	0.0	5.8	1290	5.376	5.376	-0.469	0.0	5.8
1080	5.427	5.425	-0.418	0.0	5.9	1300	5.374	5.373	-0.471	0.0	5.5
1090	5.424	5.422	-0.421	0.0	5.8	1310	5.371	5.371	-0.474	0.0	5.9
1100	5.422	5.421	-0.423	0.0	5.9	1320	5.369	5.369	-0.476	0.0	5.8
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GTA Civils Ltd						Page 18					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.020 US/MH Headwall 5 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.367	5.367	-0.478	0.0	5.8	1550	5.311	5.310	-0.534	0.0	5.7
1340	5.364	5.364	-0.481	0.0	5.7	1560	5.308	5.308	-0.537	0.0	5.7
1350	5.362	5.361	-0.483	0.0	5.8	1570	5.306	5.305	-0.539	0.0	5.7
1360	5.359	5.360	-0.486	0.0	5.7	1580	5.303	5.303	-0.542	0.0	5.8
1370	5.356	5.357	-0.489	0.0	6.0	1590	5.301	5.301	-0.544	0.0	5.7
1380	5.354	5.354	-0.491	0.0	5.8	1600	5.298	5.298	-0.547	0.0	5.7
1390	5.352	5.352	-0.493	0.0	5.8	1610	5.295	5.295	-0.550	0.0	5.7
1400	5.349	5.348	-0.496	0.0	5.6	1620	5.293	5.292	-0.552	0.0	5.7
1410	5.347	5.347	-0.498	0.0	5.8	1630	5.290	5.290	-0.555	0.0	5.7
1420	5.344	5.344	-0.501	0.0	5.8	1640	5.288	5.287	-0.557	0.0	5.7
1430	5.342	5.341	-0.503	0.0	5.8	1650	5.285	5.285	-0.560	0.0	5.7
1440	5.339	5.339	-0.506	0.0	5.8	1660	5.282	5.282	-0.563	0.0	5.7
1450	5.337	5.337	-0.508	0.0	5.8	1670	5.280	5.279	-0.565	0.0	5.7
1460	5.334	5.333	-0.511	0.0	5.7	1680	5.277	5.277	-0.568	0.0	5.7
1470	5.331	5.331	-0.514	0.0	5.8	1690	5.274	5.274	-0.571	0.0	5.7
1480	5.329	5.329	-0.516	0.0	5.8	1700	5.272	5.271	-0.573	0.0	5.7
1490	5.326	5.326	-0.519	0.0	5.8	1710	5.269	5.269	-0.576	0.0	5.7
1500	5.324	5.323	-0.521	0.0	5.8	1720	5.266	5.266	-0.579	0.0	5.7
1510	5.321	5.321	-0.524	0.0	5.8	1730	5.264	5.263	-0.581	0.0	5.7
1520	5.319	5.318	-0.526	0.0	5.7	1740	5.261	5.260	-0.584	0.0	5.7
1530	5.316	5.316	-0.529	0.0	5.8	1750	5.258	5.258	-0.587	0.0	5.7
1540	5.314	5.314	-0.531	0.0	5.8	1760	5.255	5.255	-0.590	0.0	5.7
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GTA Civils Ltd		Page 19
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.020 US/MH Headwall 5 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.253	5.252	-0.592	0.0	5.7	1890	5.219	5.219	-0.626	0.0	5.7
1780	5.250	5.250	-0.595	0.0	5.7	1900	5.217	5.216	-0.628	0.0	5.7
1790	5.247	5.247	-0.598	0.0	5.7	1910	5.214	5.214	-0.631	0.0	5.7
1800	5.244	5.244	-0.601	0.0	5.7	1920	5.211	5.211	-0.634	0.0	5.7
1810	5.242	5.241	-0.603	0.0	5.7	1930	5.208	5.208	-0.637	0.0	5.7
1820	5.239	5.239	-0.606	0.0	5.7	1940	5.205	5.205	-0.640	0.0	5.6
1830	5.236	5.236	-0.609	0.0	5.7	1950	5.202	5.203	-0.643	0.0	5.7
1840	5.233	5.233	-0.612	0.0	5.7	1960	5.200	5.199	-0.645	0.0	5.6
1850	5.231	5.230	-0.614	0.0	5.7	1970	5.197	5.196	-0.648	0.0	5.6
1860	5.228	5.228	-0.617	0.0	5.7	1980	5.194	5.193	-0.651	0.0	5.6
1870	5.225	5.225	-0.620	0.0	5.7	1990	5.191	5.191	-0.654	0.0	5.6
1880	5.222	5.222	-0.623	0.0	5.7	2000	5.188	5.188	-0.657	0.0	5.6

GTA Civils Ltd						Page 21					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.021 US/MH SWMH1.18 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.504	5.502	-0.326	0.0	12.3	670	5.517	5.516	-0.313	0.0	5.6
460	5.507	5.506	-0.323	0.0	11.6	680	5.516	5.516	-0.314	0.0	6.2
470	5.511	5.510	-0.319	0.0	11.0	690	5.514	5.514	-0.316	0.0	6.0
480	5.514	5.513	-0.316	0.0	10.4	700	5.512	5.512	-0.318	0.0	5.9
490	5.517	5.516	-0.313	0.0	10.0	710	5.511	5.511	-0.319	0.0	5.6
500	5.519	5.518	-0.311	0.0	9.6	720	5.507	5.507	-0.323	0.0	6.2
510	5.521	5.520	-0.309	0.0	9.3	730	5.504	5.505	-0.326	0.0	5.6
520	5.523	5.522	-0.307	0.0	9.2	740	5.503	5.503	-0.327	0.0	6.1
530	5.525	5.524	-0.305	0.0	9.1	750	5.501	5.501	-0.329	0.0	6.0
540	5.527	5.526	-0.303	0.0	9.0	760	5.499	5.498	-0.331	0.0	5.9
550	5.527	5.527	-0.303	0.0	8.9	770	5.496	5.496	-0.334	0.0	5.9
560	5.530	5.529	-0.300	0.0	8.9	780	5.495	5.496	-0.335	0.0	5.7
570	5.532	5.531	-0.298	0.0	8.8	790	5.492	5.491	-0.338	0.0	6.1
580	5.533	5.532	-0.297	0.0	8.6	800	5.490	5.490	-0.340	0.0	6.0
590	5.533	5.533	-0.297	0.0	8.5	810	5.488	5.488	-0.342	0.0	5.9
600	5.533	5.532	-0.297	0.0	8.0	820	5.486	5.485	-0.344	0.0	5.9
610	5.531	5.531	-0.299	0.0	7.3	830	5.483	5.483	-0.347	0.0	5.9
620	5.529	5.529	-0.301	0.0	6.5	840	5.481	5.481	-0.349	0.0	5.9
630	5.527	5.527	-0.303	0.0	6.1	850	5.478	5.478	-0.352	0.0	5.8
640	5.525	5.525	-0.305	0.0	6.0	860	5.476	5.476	-0.354	0.0	5.6
650	5.522	5.521	-0.308	0.0	5.5	870	5.474	5.474	-0.356	0.0	6.0
660	5.521	5.520	-0.309	0.0	6.2	880	5.470	5.470	-0.360	0.0	5.5
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GTA Civils Ltd						Page 22					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.021 US/MH SWMH1.18 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.469	5.469	-0.361	0.0	6.0	1110	5.419	5.419	-0.411	0.0	5.8
900	5.467	5.468	-0.363	0.0	5.6	1120	5.416	5.416	-0.414	0.0	5.9
910	5.465	5.465	-0.365	0.0	6.1	1130	5.414	5.414	-0.416	0.0	5.9
920	5.463	5.462	-0.367	0.0	5.9	1140	5.412	5.412	-0.418	0.0	5.8
930	5.460	5.460	-0.370	0.0	5.9	1150	5.410	5.410	-0.420	0.0	5.8
940	5.458	5.457	-0.372	0.0	5.8	1160	5.408	5.407	-0.422	0.0	5.8
950	5.456	5.456	-0.374	0.0	5.9	1170	5.406	5.406	-0.424	0.0	5.6
960	5.453	5.453	-0.377	0.0	5.8	1180	5.403	5.403	-0.427	0.0	6.1
970	5.452	5.452	-0.378	0.0	5.9	1190	5.401	5.400	-0.429	0.0	5.9
980	5.449	5.449	-0.381	0.0	5.7	1200	5.398	5.398	-0.432	0.0	5.8
990	5.447	5.446	-0.383	0.0	5.6	1210	5.395	5.395	-0.435	0.0	5.7
1000	5.443	5.442	-0.387	0.0	5.8	1220	5.393	5.393	-0.437	0.0	6.0
1010	5.441	5.440	-0.389	0.0	5.9	1230	5.391	5.391	-0.439	0.0	5.9
1020	5.438	5.438	-0.392	0.0	5.8	1240	5.387	5.387	-0.443	0.0	5.7
1030	5.436	5.436	-0.394	0.0	5.9	1250	5.386	5.385	-0.444	0.0	5.8
1040	5.434	5.434	-0.396	0.0	5.9	1260	5.383	5.383	-0.447	0.0	5.8
1050	5.434	5.434	-0.396	0.0	5.9	1270	5.380	5.380	-0.450	0.0	5.8
1060	5.430	5.430	-0.400	0.0	5.8	1280	5.378	5.378	-0.452	0.0	5.8
1070	5.428	5.427	-0.402	0.0	5.8	1290	5.376	5.376	-0.454	0.0	5.8
1080	5.425	5.424	-0.405	0.0	5.9	1300	5.373	5.372	-0.457	0.0	5.6
1090	5.422	5.422	-0.408	0.0	5.8	1310	5.371	5.371	-0.459	0.0	5.8
1100	5.421	5.421	-0.409	0.0	5.9	1320	5.369	5.369	-0.461	0.0	5.8
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GTA Civils Ltd						Page 23					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.021 US/MH SWMH1.18 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.367	5.366	-0.463	0.0	5.8	1550	5.310	5.310	-0.520	0.0	5.8
1340	5.364	5.363	-0.466	0.0	5.8	1560	5.308	5.308	-0.522	0.0	5.8
1350	5.361	5.360	-0.469	0.0	5.8	1570	5.305	5.305	-0.525	0.0	5.8
1360	5.360	5.360	-0.470	0.0	5.7	1580	5.303	5.303	-0.527	0.0	5.8
1370	5.357	5.356	-0.473	0.0	6.0	1590	5.301	5.300	-0.529	0.0	5.8
1380	5.354	5.354	-0.476	0.0	5.8	1600	5.298	5.298	-0.532	0.0	5.8
1390	5.352	5.351	-0.478	0.0	5.8	1610	5.295	5.295	-0.535	0.0	5.8
1400	5.348	5.348	-0.482	0.0	5.6	1620	5.292	5.292	-0.538	0.0	5.7
1410	5.347	5.346	-0.483	0.0	5.8	1630	5.290	5.289	-0.540	0.0	5.8
1420	5.344	5.344	-0.486	0.0	5.8	1640	5.287	5.287	-0.543	0.0	5.7
1430	5.341	5.341	-0.489	0.0	5.8	1650	5.285	5.284	-0.545	0.0	5.8
1440	5.339	5.338	-0.491	0.0	5.8	1660	5.282	5.282	-0.548	0.0	5.7
1450	5.337	5.336	-0.493	0.0	5.8	1670	5.279	5.279	-0.551	0.0	5.7
1460	5.333	5.333	-0.497	0.0	5.8	1680	5.277	5.276	-0.553	0.0	5.7
1470	5.331	5.331	-0.499	0.0	5.8	1690	5.274	5.274	-0.556	0.0	5.7
1480	5.329	5.329	-0.501	0.0	5.8	1700	5.271	5.271	-0.559	0.0	5.7
1490	5.326	5.326	-0.504	0.0	5.8	1710	5.269	5.268	-0.561	0.0	5.7
1500	5.323	5.323	-0.507	0.0	5.8	1720	5.266	5.266	-0.564	0.0	5.7
1510	5.321	5.321	-0.509	0.0	5.8	1730	5.263	5.263	-0.567	0.0	5.7
1520	5.318	5.318	-0.512	0.0	5.8	1740	5.260	5.260	-0.570	0.0	5.7
1530	5.316	5.316	-0.514	0.0	5.8	1750	5.258	5.257	-0.572	0.0	5.7
1540	5.314	5.313	-0.516	0.0	5.8	1760	5.255	5.255	-0.575	0.0	5.7
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GTA Civils Ltd		Page 24
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.021 US/MH SWMH1.18 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.252	5.252	-0.578	0.0	5.7	1890	5.219	5.219	-0.611	0.0	5.7
1780	5.250	5.249	-0.580	0.0	5.7	1900	5.216	5.216	-0.614	0.0	5.7
1790	5.247	5.247	-0.583	0.0	5.7	1910	5.214	5.213	-0.616	0.0	5.7
1800	5.244	5.244	-0.586	0.0	5.7	1920	5.211	5.210	-0.619	0.0	5.7
1810	5.241	5.241	-0.589	0.0	5.7	1930	5.208	5.208	-0.622	0.0	5.7
1820	5.239	5.238	-0.591	0.0	5.7	1940	5.205	5.205	-0.625	0.0	5.7
1830	5.236	5.236	-0.594	0.0	5.7	1950	5.203	5.202	-0.627	0.0	5.7
1840	5.233	5.233	-0.597	0.0	5.7	1960	5.199	5.199	-0.631	0.0	5.7
1850	5.230	5.230	-0.600	0.0	5.7	1970	5.196	5.196	-0.634	0.0	5.7
1860	5.228	5.227	-0.602	0.0	5.7	1980	5.193	5.193	-0.637	0.0	5.7
1870	5.225	5.225	-0.605	0.0	5.7	1990	5.191	5.190	-0.639	0.0	5.7
1880	5.222	5.222	-0.608	0.0	5.7	2000	5.188	5.187	-0.642	0.0	5.7

GTA Civils Ltd						Page 26					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.022 US/MH Headwall 6 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.502	5.493	-0.318	0.0	12.3	670	5.516	5.516	-0.304	0.0	5.7
460	5.506	5.498	-0.314	0.0	11.6	680	5.516	5.513	-0.304	0.0	6.2
470	5.510	5.502	-0.310	0.0	11.0	690	5.514	5.511	-0.306	0.0	6.1
480	5.513	5.506	-0.307	0.0	10.5	700	5.512	5.509	-0.308	0.0	6.0
490	5.516	5.509	-0.304	0.0	10.0	710	5.511	5.506	-0.309	0.0	5.6
500	5.518	5.512	-0.302	0.0	9.6	720	5.507	5.505	-0.313	0.0	6.2
510	5.520	5.514	-0.300	0.0	9.3	730	5.505	5.502	-0.315	0.0	5.7
520	5.522	5.516	-0.298	0.0	9.1	740	5.503	5.500	-0.317	0.0	6.1
530	5.524	5.518	-0.296	0.0	9.0	750	5.501	5.498	-0.319	0.0	6.0
540	5.526	5.520	-0.294	0.0	9.0	760	5.498	5.496	-0.322	0.0	5.9
550	5.527	5.522	-0.293	0.0	8.9	770	5.496	5.494	-0.324	0.0	5.9
560	5.529	5.523	-0.291	0.0	8.8	780	5.496	5.492	-0.324	0.0	5.7
570	5.531	5.525	-0.289	0.0	8.8	790	5.491	5.489	-0.329	0.0	6.1
580	5.532	5.527	-0.288	0.0	8.6	800	5.490	5.487	-0.330	0.0	6.0
590	5.533	5.527	-0.287	0.0	8.5	810	5.488	5.485	-0.332	0.0	5.9
600	5.532	5.528	-0.288	0.0	8.1	820	5.485	5.483	-0.335	0.0	5.9
610	5.531	5.527	-0.289	0.0	7.3	830	5.483	5.480	-0.337	0.0	5.9
620	5.529	5.526	-0.291	0.0	6.6	840	5.481	5.478	-0.339	0.0	5.9
630	5.527	5.524	-0.293	0.0	6.2	850	5.478	5.476	-0.342	0.0	5.9
640	5.525	5.522	-0.295	0.0	6.0	860	5.476	5.474	-0.344	0.0	5.6
650	5.521	5.520	-0.299	0.0	5.6	870	5.474	5.471	-0.346	0.0	6.0
660	5.520	5.517	-0.300	0.0	6.2	880	5.470	5.469	-0.350	0.0	5.6
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GTA Civils Ltd						Page 27					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.022 US/MH Headwall 6 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.469	5.467	-0.351	0.0	6.0	1110	5.419	5.417	-0.401	0.0	5.9
900	5.468	5.464	-0.352	0.0	5.7	1120	5.416	5.415	-0.404	0.0	5.9
910	5.465	5.462	-0.355	0.0	6.1	1130	5.414	5.412	-0.406	0.0	5.9
920	5.462	5.460	-0.358	0.0	6.0	1140	5.412	5.410	-0.408	0.0	5.9
930	5.460	5.458	-0.360	0.0	5.9	1150	5.410	5.408	-0.410	0.0	5.9
940	5.457	5.456	-0.363	0.0	5.9	1160	5.407	5.405	-0.413	0.0	5.9
950	5.456	5.453	-0.364	0.0	5.9	1170	5.406	5.402	-0.414	0.0	5.6
960	5.453	5.451	-0.367	0.0	5.9	1180	5.403	5.400	-0.417	0.0	6.1
970	5.452	5.449	-0.368	0.0	5.9	1190	5.400	5.398	-0.420	0.0	5.9
980	5.449	5.447	-0.371	0.0	5.7	1200	5.398	5.396	-0.422	0.0	5.9
990	5.446	5.444	-0.374	0.0	5.7	1210	5.395	5.393	-0.425	0.0	5.7
1000	5.442	5.442	-0.378	0.0	5.8	1220	5.393	5.391	-0.427	0.0	6.0
1010	5.440	5.440	-0.380	0.0	5.9	1230	5.391	5.389	-0.429	0.0	5.9
1020	5.438	5.438	-0.382	0.0	5.8	1240	5.387	5.386	-0.433	0.0	5.7
1030	5.436	5.435	-0.384	0.0	5.9	1250	5.385	5.384	-0.435	0.0	5.8
1040	5.434	5.433	-0.386	0.0	5.9	1260	5.383	5.381	-0.437	0.0	5.8
1050	5.434	5.431	-0.386	0.0	5.9	1270	5.380	5.379	-0.440	0.0	5.9
1060	5.430	5.428	-0.390	0.0	5.9	1280	5.378	5.377	-0.442	0.0	5.8
1070	5.427	5.426	-0.393	0.0	5.8	1290	5.376	5.374	-0.444	0.0	5.8
1080	5.424	5.424	-0.396	0.0	6.0	1300	5.372	5.371	-0.448	0.0	5.6
1090	5.422	5.422	-0.398	0.0	5.9	1310	5.371	5.369	-0.449	0.0	5.9
1100	5.421	5.419	-0.399	0.0	5.9	1320	5.369	5.367	-0.451	0.0	5.8
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GTA Civils Ltd						Page 28					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.022 US/MH Headwall 6 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.366	5.364	-0.454	0.0	5.8	1550	5.310	5.309	-0.510	0.0	5.8
1340	5.363	5.362	-0.457	0.0	5.8	1560	5.308	5.307	-0.512	0.0	5.8
1350	5.360	5.359	-0.460	0.0	5.8	1570	5.305	5.304	-0.515	0.0	5.8
1360	5.360	5.357	-0.460	0.0	5.7	1580	5.303	5.301	-0.517	0.0	5.8
1370	5.356	5.354	-0.464	0.0	6.0	1590	5.300	5.299	-0.520	0.0	5.8
1380	5.354	5.352	-0.466	0.0	5.9	1600	5.298	5.296	-0.522	0.0	5.8
1390	5.351	5.349	-0.469	0.0	5.8	1610	5.295	5.294	-0.525	0.0	5.8
1400	5.348	5.347	-0.472	0.0	5.7	1620	5.292	5.291	-0.528	0.0	5.8
1410	5.346	5.345	-0.474	0.0	5.8	1630	5.289	5.288	-0.531	0.0	5.8
1420	5.344	5.342	-0.476	0.0	5.8	1640	5.287	5.286	-0.533	0.0	5.8
1430	5.341	5.340	-0.479	0.0	5.8	1650	5.284	5.283	-0.536	0.0	5.8
1440	5.338	5.337	-0.482	0.0	5.8	1660	5.282	5.280	-0.538	0.0	5.8
1450	5.336	5.335	-0.484	0.0	5.8	1670	5.279	5.278	-0.541	0.0	5.8
1460	5.333	5.332	-0.487	0.0	5.8	1680	5.276	5.275	-0.544	0.0	5.8
1470	5.331	5.329	-0.489	0.0	5.8	1690	5.274	5.272	-0.546	0.0	5.8
1480	5.329	5.327	-0.491	0.0	5.8	1700	5.271	5.270	-0.549	0.0	5.8
1490	5.326	5.324	-0.494	0.0	5.8	1710	5.268	5.267	-0.552	0.0	5.8
1500	5.323	5.322	-0.497	0.0	5.8	1720	5.266	5.264	-0.554	0.0	5.8
1510	5.321	5.319	-0.499	0.0	5.8	1730	5.263	5.262	-0.557	0.0	5.8
1520	5.318	5.317	-0.502	0.0	5.8	1740	5.260	5.259	-0.560	0.0	5.8
1530	5.316	5.314	-0.504	0.0	5.8	1750	5.257	5.256	-0.563	0.0	5.8
1540	5.313	5.312	-0.507	0.0	5.8	1760	5.255	5.254	-0.565	0.0	5.8
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GTA Civils Ltd		Page 29
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.022 US/MH Headwall 6 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.252	5.251	-0.568	0.0	5.8	1890	5.219	5.218	-0.601	0.0	5.7
1780	5.249	5.248	-0.571	0.0	5.8	1900	5.216	5.215	-0.604	0.0	5.7
1790	5.247	5.245	-0.573	0.0	5.8	1910	5.213	5.212	-0.607	0.0	5.7
1800	5.244	5.243	-0.576	0.0	5.8	1920	5.210	5.209	-0.610	0.0	5.7
1810	5.241	5.240	-0.579	0.0	5.8	1930	5.208	5.207	-0.612	0.0	5.7
1820	5.238	5.237	-0.582	0.0	5.8	1940	5.205	5.204	-0.615	0.0	5.7
1830	5.236	5.235	-0.584	0.0	5.7	1950	5.202	5.201	-0.618	0.0	5.7
1840	5.233	5.232	-0.587	0.0	5.7	1960	5.199	5.198	-0.621	0.0	5.7
1850	5.230	5.229	-0.590	0.0	5.7	1970	5.196	5.195	-0.624	0.0	5.7
1860	5.227	5.226	-0.593	0.0	5.7	1980	5.193	5.192	-0.627	0.0	5.7
1870	5.225	5.223	-0.595	0.0	5.7	1990	5.190	5.190	-0.630	0.0	5.7
1880	5.222	5.221	-0.598	0.0	5.7	2000	5.187	5.187	-0.633	0.0	5.7

GTA Civils Ltd						Page 30					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.023 US/MH Headwall 7 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.870	4.861	-0.900	0.0	0.0	230	5.044	5.049	-0.726	0.0	4.6
20	4.871	4.865	-0.899	0.0	0.0	240	5.071	5.098	-0.699	0.0	5.6
30	4.871	4.868	-0.899	0.0	0.0	250	5.102	5.116	-0.668	0.0	6.0
40	4.872	4.870	-0.898	0.0	0.1	260	5.135	5.139	-0.635	0.0	6.7
50	4.874	4.872	-0.896	0.0	0.1	270	5.168	5.164	-0.602	0.0	7.5
60	4.875	4.874	-0.895	0.0	0.1	280	5.197	5.195	-0.573	0.0	7.9
70	4.877	4.876	-0.893	0.0	0.2	290	5.226	5.227	-0.544	0.0	8.0
80	4.880	4.879	-0.890	0.0	0.2	300	5.255	5.259	-0.515	0.0	8.0
90	4.883	4.882	-0.887	0.0	0.3	310	5.283	5.270	-0.487	0.0	7.7
100	4.887	4.886	-0.883	0.0	0.4	320	5.310	5.305	-0.460	0.0	8.3
110	4.891	4.890	-0.879	0.0	0.5	330	5.335	5.336	-0.435	0.0	8.1
120	4.896	4.894	-0.874	0.0	0.7	340	5.358	5.363	-0.412	0.0	8.1
130	4.901	4.899	-0.869	0.0	0.9	350	5.379	5.375	-0.391	0.0	7.9
140	4.907	4.905	-0.863	0.0	1.1	360	5.397	5.399	-0.373	0.0	8.0
150	4.914	4.912	-0.856	0.0	1.4	370	5.413	5.422	-0.357	0.0	7.9
160	4.922	4.919	-0.848	0.0	1.8	380	5.427	5.424	-0.343	0.0	8.1
170	4.931	4.928	-0.839	0.0	2.1	390	5.440	5.438	-0.330	0.0	7.9
180	4.941	4.939	-0.829	0.0	2.3	400	5.452	5.449	-0.318	0.0	7.9
190	4.955	4.946	-0.815	0.0	2.6	410	5.462	5.466	-0.308	0.0	7.8
200	4.974	4.972	-0.796	0.0	3.0	420	5.471	5.468	-0.299	0.0	8.1
210	4.995	4.995	-0.775	0.0	3.4	430	5.479	5.483	-0.291	0.0	8.0
220	5.019	5.022	-0.751	0.0	4.0	440	5.487	5.486	-0.283	0.0	7.5
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GTA Civils Ltd						Page 32					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.023 US/MH Headwall 7 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.467	5.468	-0.303	0.0	7.4	1110	5.417	5.415	-0.353	0.0	7.7
900	5.464	5.440	-0.306	0.0	7.5	1120	5.415	5.411	-0.355	0.0	7.7
910	5.462	5.460	-0.308	0.0	7.9	1130	5.412	5.408	-0.358	0.0	7.7
920	5.460	5.459	-0.310	0.0	7.8	1140	5.410	5.407	-0.360	0.0	7.8
930	5.458	5.459	-0.312	0.0	7.8	1150	5.408	5.408	-0.362	0.0	7.8
940	5.456	5.457	-0.314	0.0	7.8	1160	5.405	5.407	-0.365	0.0	7.8
950	5.453	5.453	-0.317	0.0	7.8	1170	5.402	5.388	-0.368	0.0	7.6
960	5.451	5.449	-0.319	0.0	7.7	1180	5.400	5.397	-0.370	0.0	7.7
970	5.449	5.446	-0.321	0.0	7.8	1190	5.398	5.398	-0.372	0.0	7.8
980	5.447	5.459	-0.323	0.0	7.9	1200	5.396	5.397	-0.374	0.0	7.8
990	5.444	5.457	-0.326	0.0	7.7	1210	5.393	5.389	-0.377	0.0	7.8
1000	5.442	5.455	-0.328	0.0	7.7	1220	5.391	5.389	-0.379	0.0	7.5
1010	5.440	5.453	-0.330	0.0	7.7	1230	5.389	5.390	-0.381	0.0	7.8
1020	5.438	5.450	-0.332	0.0	7.7	1240	5.386	5.399	-0.384	0.0	7.9
1030	5.435	5.448	-0.335	0.0	7.7	1250	5.384	5.385	-0.386	0.0	7.4
1040	5.433	5.446	-0.337	0.0	7.7	1260	5.381	5.380	-0.389	0.0	7.7
1050	5.431	5.443	-0.339	0.0	7.7	1270	5.379	5.377	-0.391	0.0	7.8
1060	5.428	5.441	-0.342	0.0	7.7	1280	5.377	5.378	-0.393	0.0	7.8
1070	5.426	5.439	-0.344	0.0	7.7	1290	5.374	5.370	-0.396	0.0	7.7
1080	5.424	5.436	-0.346	0.0	7.7	1300	5.371	5.385	-0.399	0.0	8.0
1090	5.422	5.434	-0.348	0.0	7.7	1310	5.369	5.366	-0.401	0.0	7.5
1100	5.419	5.420	-0.351	0.0	7.8	1320	5.367	5.366	-0.403	0.0	7.8
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GTA Civils Ltd		Page 34
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.023 US/MH Headwall 7 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.251	5.252	-0.519	0.0	7.7	1890	5.218	5.219	-0.552	0.0	7.7
1780	5.248	5.249	-0.522	0.0	7.7	1900	5.215	5.216	-0.555	0.0	7.7
1790	5.245	5.247	-0.525	0.0	7.7	1910	5.212	5.213	-0.558	0.0	7.7
1800	5.243	5.244	-0.527	0.0	7.7	1920	5.209	5.208	-0.561	0.0	7.6
1810	5.240	5.241	-0.530	0.0	7.7	1930	5.207	5.208	-0.563	0.0	7.7
1820	5.237	5.238	-0.533	0.0	7.7	1940	5.204	5.202	-0.566	0.0	7.6
1830	5.235	5.236	-0.535	0.0	7.7	1950	5.201	5.202	-0.569	0.0	7.7
1840	5.232	5.233	-0.538	0.0	7.7	1960	5.198	5.198	-0.572	0.0	7.7
1850	5.229	5.230	-0.541	0.0	7.7	1970	5.195	5.195	-0.575	0.0	7.6
1860	5.226	5.227	-0.544	0.0	7.7	1980	5.192	5.193	-0.578	0.0	7.6
1870	5.223	5.225	-0.547	0.0	7.7	1990	5.190	5.190	-0.580	0.0	7.6
1880	5.221	5.222	-0.549	0.0	7.7	2000	5.187	5.187	-0.583	0.0	7.6

GTA Civils Ltd						Page 35					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.024 US/MH SWMH1.19 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.861	4.840	-0.899	0.0	0.0	230	5.049	4.912	-0.711	0.0	4.3
20	4.865	4.840	-0.895	0.0	0.0	240	5.098	4.927	-0.662	0.0	5.1
30	4.868	4.840	-0.892	0.0	0.0	250	5.116	4.938	-0.644	0.0	5.7
40	4.870	4.841	-0.890	0.0	0.1	260	5.139	4.951	-0.621	0.0	6.5
50	4.872	4.841	-0.888	0.0	0.1	270	5.164	4.968	-0.596	0.0	7.2
60	4.874	4.841	-0.886	0.0	0.1	280	5.195	4.988	-0.565	0.0	7.5
70	4.876	4.841	-0.884	0.0	0.1	290	5.227	5.009	-0.533	0.0	7.6
80	4.879	4.842	-0.881	0.0	0.2	300	5.259	5.032	-0.501	0.0	7.6
90	4.882	4.843	-0.878	0.0	0.3	310	5.270	5.054	-0.490	0.0	7.6
100	4.886	4.844	-0.874	0.0	0.4	320	5.305	5.076	-0.455	0.0	7.6
110	4.890	4.845	-0.870	0.0	0.5	330	5.336	5.097	-0.424	0.0	7.7
120	4.894	4.847	-0.866	0.0	0.6	340	5.363	5.116	-0.397	0.0	7.7
130	4.899	4.849	-0.861	0.0	0.8	350	5.375	5.133	-0.385	0.0	7.7
140	4.905	4.853	-0.855	0.0	1.1	360	5.399	5.149	-0.361	0.0	7.7
150	4.912	4.856	-0.848	0.0	1.4	370	5.422	5.163	-0.338	0.0	7.7
160	4.919	4.861	-0.841	0.0	1.7	380	5.424	5.175	-0.336	0.0	7.7
170	4.928	4.864	-0.832	0.0	2.0	390	5.438	5.187	-0.322	0.0	7.7
180	4.939	4.868	-0.821	0.0	2.2	400	5.449	5.197	-0.311	0.0	7.7
190	4.946	4.873	-0.814	0.0	2.5	410	5.466	5.206	-0.294	0.0	7.7
200	4.972	4.880	-0.788	0.0	2.8	420	5.468	5.213	-0.292	0.0	7.8
210	4.995	4.889	-0.765	0.0	3.3	430	5.483	5.220	-0.277	0.0	7.7
220	5.022	4.900	-0.738	0.0	3.8	440	5.486	5.225	-0.274	0.0	7.8
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GTA Civils Ltd						Page 36					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.024 US/MH SWMH1.19 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.490	5.230	-0.270	0.0	7.8	670	5.514	5.243	-0.246	0.0	7.8
460	5.507	5.234	-0.253	0.0	7.8	680	5.511	5.241	-0.249	0.0	7.8
470	5.503	5.237	-0.257	0.0	7.8	690	5.511	5.239	-0.249	0.0	7.8
480	5.506	5.240	-0.254	0.0	7.8	700	5.509	5.237	-0.251	0.0	7.8
490	5.507	5.242	-0.253	0.0	7.8	710	5.499	5.235	-0.261	0.0	7.8
500	5.509	5.244	-0.251	0.0	7.8	720	5.505	5.233	-0.255	0.0	7.8
510	5.514	5.246	-0.246	0.0	7.8	730	5.505	5.231	-0.255	0.0	7.8
520	5.515	5.248	-0.245	0.0	7.8	740	5.497	5.229	-0.263	0.0	7.8
530	5.518	5.250	-0.242	0.0	7.8	750	5.494	5.227	-0.266	0.0	7.8
540	5.520	5.252	-0.240	0.0	7.8	760	5.494	5.225	-0.266	0.0	7.8
550	5.530	5.253	-0.230	0.0	7.8	770	5.495	5.223	-0.265	0.0	7.8
560	5.523	5.255	-0.237	0.0	7.8	780	5.472	5.221	-0.288	0.0	7.8
570	5.524	5.256	-0.236	0.0	7.8	790	5.489	5.219	-0.271	0.0	7.8
580	5.527	5.257	-0.233	0.0	7.8	800	5.485	5.217	-0.275	0.0	7.8
590	5.527	5.258	-0.233	0.0	7.8	810	5.483	5.215	-0.277	0.0	7.8
600	5.526	5.257	-0.234	0.0	7.8	820	5.483	5.213	-0.277	0.0	7.8
610	5.527	5.255	-0.233	0.0	7.8	830	5.480	5.211	-0.280	0.0	7.8
620	5.526	5.253	-0.234	0.0	7.8	840	5.476	5.209	-0.284	0.0	7.8
630	5.523	5.251	-0.237	0.0	7.8	850	5.473	5.207	-0.287	0.0	7.8
640	5.520	5.249	-0.240	0.0	7.8	860	5.481	5.205	-0.279	0.0	7.8
650	5.502	5.247	-0.258	0.0	7.8	870	5.469	5.203	-0.291	0.0	7.8
660	5.515	5.245	-0.245	0.0	7.8	880	5.479	5.201	-0.281	0.0	7.8
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GTA Civils Ltd						Page 37					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.024 US/MH SWMH1.19 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.468	5.198	-0.292	0.0	7.8	1110	5.415	5.152	-0.345	0.0	7.8
900	5.440	5.196	-0.320	0.0	7.8	1120	5.411	5.150	-0.349	0.0	7.8
910	5.460	5.194	-0.300	0.0	7.8	1130	5.408	5.147	-0.352	0.0	7.8
920	5.459	5.192	-0.301	0.0	7.8	1140	5.407	5.145	-0.353	0.0	7.8
930	5.459	5.190	-0.301	0.0	7.8	1150	5.408	5.143	-0.352	0.0	7.8
940	5.457	5.188	-0.303	0.0	7.8	1160	5.407	5.141	-0.353	0.0	7.8
950	5.453	5.186	-0.307	0.0	7.8	1170	5.388	5.139	-0.372	0.0	7.8
960	5.449	5.184	-0.311	0.0	7.8	1180	5.397	5.136	-0.363	0.0	7.8
970	5.446	5.182	-0.314	0.0	7.8	1190	5.398	5.134	-0.362	0.0	7.8
980	5.459	5.180	-0.301	0.0	7.8	1200	5.397	5.132	-0.363	0.0	7.8
990	5.457	5.177	-0.303	0.0	7.8	1210	5.389	5.130	-0.371	0.0	7.8
1000	5.455	5.175	-0.305	0.0	7.8	1220	5.389	5.127	-0.371	0.0	7.8
1010	5.453	5.173	-0.307	0.0	7.8	1230	5.390	5.125	-0.370	0.0	7.8
1020	5.450	5.171	-0.310	0.0	7.8	1240	5.399	5.123	-0.361	0.0	7.8
1030	5.448	5.169	-0.312	0.0	7.8	1250	5.385	5.120	-0.375	0.0	7.8
1040	5.446	5.167	-0.314	0.0	7.8	1260	5.380	5.118	-0.380	0.0	7.8
1050	5.443	5.165	-0.317	0.0	7.8	1270	5.377	5.116	-0.383	0.0	7.8
1060	5.441	5.163	-0.319	0.0	7.8	1280	5.378	5.114	-0.382	0.0	7.8
1070	5.439	5.160	-0.321	0.0	7.8	1290	5.370	5.111	-0.390	0.0	7.8
1080	5.436	5.158	-0.324	0.0	7.8	1300	5.385	5.109	-0.375	0.0	7.8
1090	5.434	5.156	-0.326	0.0	7.8	1310	5.366	5.107	-0.394	0.0	7.8
1100	5.420	5.154	-0.340	0.0	7.8	1320	5.366	5.104	-0.394	0.0	7.8
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GTA Civils Ltd						Page 38					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.364	5.102	-0.396	0.0	7.8	1550	5.310	5.051	-0.450	0.0	7.8
1340	5.358	5.100	-0.402	0.0	7.8	1560	5.308	5.048	-0.452	0.0	7.8
1350	5.362	5.097	-0.398	0.0	7.8	1570	5.305	5.046	-0.455	0.0	7.8
1360	5.338	5.095	-0.422	0.0	7.8	1580	5.302	5.044	-0.458	0.0	7.8
1370	5.352	5.093	-0.408	0.0	7.8	1590	5.300	5.042	-0.460	0.0	7.8
1380	5.354	5.090	-0.406	0.0	7.8	1600	5.297	5.039	-0.463	0.0	7.8
1390	5.345	5.088	-0.415	0.0	7.8	1610	5.295	5.037	-0.465	0.0	7.8
1400	5.361	5.086	-0.399	0.0	7.8	1620	5.292	5.035	-0.468	0.0	7.8
1410	5.340	5.083	-0.420	0.0	7.8	1630	5.289	5.032	-0.471	0.0	7.8
1420	5.340	5.081	-0.420	0.0	7.8	1640	5.287	5.030	-0.473	0.0	7.8
1430	5.339	5.078	-0.421	0.0	7.8	1650	5.284	5.028	-0.476	0.0	7.8
1440	5.335	5.076	-0.425	0.0	7.8	1660	5.281	5.026	-0.479	0.0	7.8
1450	5.333	5.074	-0.427	0.0	7.8	1670	5.279	5.023	-0.481	0.0	7.7
1460	5.332	5.071	-0.428	0.0	7.8	1680	5.276	5.021	-0.484	0.0	7.7
1470	5.327	5.069	-0.433	0.0	7.8	1690	5.274	5.019	-0.486	0.0	7.7
1480	5.328	5.067	-0.432	0.0	7.8	1700	5.271	5.017	-0.489	0.0	7.7
1490	5.326	5.064	-0.434	0.0	7.8	1710	5.268	5.014	-0.492	0.0	7.7
1500	5.323	5.062	-0.437	0.0	7.8	1720	5.266	5.012	-0.494	0.0	7.7
1510	5.320	5.060	-0.440	0.0	7.8	1730	5.263	5.010	-0.497	0.0	7.7
1520	5.318	5.058	-0.442	0.0	7.8	1740	5.260	5.007	-0.500	0.0	7.7
1530	5.315	5.055	-0.445	0.0	7.8	1750	5.258	5.005	-0.502	0.0	7.7
1540	5.313	5.053	-0.447	0.0	7.8	1760	5.255	5.003	-0.505	0.0	7.7
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GTA Civils Ltd		Page 39
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.024 US/MH SWMH1.19 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.252	5.001	-0.508	0.0	7.7	1890	5.219	4.975	-0.541	0.0	7.7
1780	5.249	4.998	-0.511	0.0	7.7	1900	5.216	4.973	-0.544	0.0	7.7
1790	5.247	4.996	-0.513	0.0	7.7	1910	5.213	4.971	-0.547	0.0	7.7
1800	5.244	4.994	-0.516	0.0	7.7	1920	5.208	4.969	-0.552	0.0	7.7
1810	5.241	4.992	-0.519	0.0	7.7	1930	5.208	4.967	-0.552	0.0	7.7
1820	5.238	4.990	-0.522	0.0	7.7	1940	5.202	4.966	-0.558	0.0	7.7
1830	5.236	4.987	-0.524	0.0	7.7	1950	5.202	4.964	-0.558	0.0	7.7
1840	5.233	4.985	-0.527	0.0	7.7	1960	5.198	4.962	-0.562	0.0	7.7
1850	5.230	4.983	-0.530	0.0	7.7	1970	5.195	4.960	-0.565	0.0	7.7
1860	5.227	4.981	-0.533	0.0	7.7	1980	5.193	4.959	-0.567	0.0	7.7
1870	5.225	4.979	-0.535	0.0	7.7	1990	5.190	4.957	-0.570	0.0	7.7
1880	5.222	4.977	-0.538	0.0	7.7	2000	5.187	4.956	-0.573	0.0	7.7

GTA Civils Ltd						Page 40					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.025 US/MH Headwall 8 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.840	4.651	-0.900	0.0	0.0	230	4.912	4.870	-0.828	0.0	4.1
20	4.840	4.653	-0.900	0.0	0.0	240	4.927	4.888	-0.813	0.0	4.8
30	4.840	4.659	-0.900	0.0	0.0	250	4.938	4.909	-0.802	0.0	5.4
40	4.841	4.667	-0.899	0.0	0.0	260	4.951	4.932	-0.789	0.0	6.1
50	4.841	4.677	-0.899	0.0	0.1	270	4.968	4.956	-0.772	0.0	6.8
60	4.841	4.687	-0.899	0.0	0.1	280	4.988	4.980	-0.752	0.0	7.3
70	4.841	4.697	-0.899	0.0	0.1	290	5.009	5.004	-0.731	0.0	7.4
80	4.842	4.707	-0.898	0.0	0.2	300	5.032	5.029	-0.708	0.0	7.4
90	4.843	4.716	-0.897	0.0	0.2	310	5.054	5.052	-0.686	0.0	7.4
100	4.844	4.726	-0.896	0.0	0.3	320	5.076	5.075	-0.664	0.0	7.4
110	4.845	4.735	-0.895	0.0	0.4	330	5.097	5.095	-0.643	0.0	7.5
120	4.847	4.743	-0.893	0.0	0.6	340	5.116	5.114	-0.624	0.0	7.5
130	4.849	4.752	-0.891	0.0	0.7	350	5.133	5.131	-0.607	0.0	7.5
140	4.853	4.759	-0.887	0.0	1.0	360	5.149	5.146	-0.591	0.0	7.5
150	4.856	4.767	-0.884	0.0	1.2	370	5.163	5.160	-0.577	0.0	7.6
160	4.861	4.775	-0.879	0.0	1.6	380	5.175	5.172	-0.565	0.0	7.6
170	4.864	4.785	-0.876	0.0	1.9	390	5.187	5.184	-0.553	0.0	7.6
180	4.868	4.795	-0.872	0.0	2.1	400	5.197	5.194	-0.543	0.0	7.6
190	4.873	4.807	-0.867	0.0	2.4	410	5.206	5.202	-0.534	0.0	7.6
200	4.880	4.821	-0.860	0.0	2.7	420	5.213	5.210	-0.527	0.0	7.7
210	4.889	4.837	-0.851	0.0	3.1	430	5.220	5.216	-0.520	0.0	7.7
220	4.900	4.853	-0.840	0.0	3.5	440	5.225	5.222	-0.515	0.0	7.7
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GTA Civils Ltd						Page 41					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.025 US/MH Headwall 8 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.230	5.227	-0.510	0.0	7.7	670	5.243	5.240	-0.497	0.0	7.8
460	5.234	5.231	-0.506	0.0	7.7	680	5.241	5.238	-0.499	0.0	7.8
470	5.237	5.234	-0.503	0.0	7.7	690	5.239	5.236	-0.501	0.0	7.8
480	5.240	5.237	-0.500	0.0	7.8	700	5.237	5.234	-0.503	0.0	7.8
490	5.242	5.239	-0.498	0.0	7.8	710	5.235	5.232	-0.505	0.0	7.8
500	5.244	5.241	-0.496	0.0	7.8	720	5.233	5.230	-0.507	0.0	7.8
510	5.246	5.243	-0.494	0.0	7.8	730	5.231	5.228	-0.509	0.0	7.8
520	5.248	5.244	-0.492	0.0	7.8	740	5.229	5.226	-0.511	0.0	7.8
530	5.250	5.246	-0.490	0.0	7.8	750	5.227	5.224	-0.513	0.0	7.8
540	5.252	5.248	-0.488	0.0	7.8	760	5.225	5.222	-0.515	0.0	7.8
550	5.253	5.250	-0.487	0.0	7.8	770	5.223	5.220	-0.517	0.0	7.8
560	5.255	5.251	-0.485	0.0	7.8	780	5.221	5.218	-0.519	0.0	7.8
570	5.256	5.253	-0.484	0.0	7.8	790	5.219	5.216	-0.521	0.0	7.8
580	5.257	5.253	-0.483	0.0	7.8	800	5.217	5.214	-0.523	0.0	7.8
590	5.258	5.254	-0.482	0.0	7.8	810	5.215	5.212	-0.525	0.0	7.8
600	5.257	5.253	-0.483	0.0	7.8	820	5.213	5.209	-0.527	0.0	7.8
610	5.255	5.252	-0.485	0.0	7.8	830	5.211	5.207	-0.529	0.0	7.8
620	5.253	5.250	-0.487	0.0	7.8	840	5.209	5.205	-0.531	0.0	7.8
630	5.251	5.248	-0.489	0.0	7.8	850	5.207	5.203	-0.533	0.0	7.8
640	5.249	5.246	-0.491	0.0	7.8	860	5.205	5.201	-0.535	0.0	7.8
650	5.247	5.244	-0.493	0.0	7.8	870	5.203	5.199	-0.537	0.0	7.8
660	5.245	5.242	-0.495	0.0	7.8	880	5.201	5.197	-0.539	0.0	7.8
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GTA Civils Ltd						Page 43					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.025 US/MH Headwall 8 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.102	5.100	-0.638	0.0	7.8	1550	5.051	5.049	-0.689	0.0	7.8
1340	5.100	5.097	-0.640	0.0	7.8	1560	5.048	5.046	-0.692	0.0	7.8
1350	5.097	5.095	-0.643	0.0	7.8	1570	5.046	5.044	-0.694	0.0	7.8
1360	5.095	5.093	-0.645	0.0	7.8	1580	5.044	5.041	-0.696	0.0	7.8
1370	5.093	5.091	-0.647	0.0	7.8	1590	5.042	5.039	-0.698	0.0	7.8
1380	5.090	5.088	-0.650	0.0	7.8	1600	5.039	5.036	-0.701	0.0	7.8
1390	5.088	5.086	-0.652	0.0	7.8	1610	5.037	5.034	-0.703	0.0	7.8
1400	5.086	5.084	-0.654	0.0	7.8	1620	5.035	5.032	-0.705	0.0	7.8
1410	5.083	5.081	-0.657	0.0	7.8	1630	5.032	5.029	-0.708	0.0	7.8
1420	5.081	5.079	-0.659	0.0	7.8	1640	5.030	5.027	-0.710	0.0	7.8
1430	5.078	5.077	-0.662	0.0	7.8	1650	5.028	5.024	-0.712	0.0	7.8
1440	5.076	5.074	-0.664	0.0	7.8	1660	5.026	5.022	-0.714	0.0	7.8
1450	5.074	5.072	-0.666	0.0	7.8	1670	5.023	5.019	-0.717	0.0	7.8
1460	5.071	5.070	-0.669	0.0	7.8	1680	5.021	5.017	-0.719	0.0	7.8
1470	5.069	5.067	-0.671	0.0	7.8	1690	5.019	5.014	-0.721	0.0	7.8
1480	5.067	5.065	-0.673	0.0	7.8	1700	5.017	5.012	-0.723	0.0	7.8
1490	5.064	5.063	-0.676	0.0	7.8	1710	5.014	5.009	-0.726	0.0	7.8
1500	5.062	5.060	-0.678	0.0	7.8	1720	5.012	5.007	-0.728	0.0	7.8
1510	5.060	5.058	-0.680	0.0	7.8	1730	5.010	5.004	-0.730	0.0	7.8
1520	5.058	5.056	-0.682	0.0	7.8	1740	5.007	5.002	-0.733	0.0	7.8
1530	5.055	5.053	-0.685	0.0	7.8	1750	5.005	4.999	-0.735	0.0	7.8
1540	5.053	5.051	-0.687	0.0	7.8	1760	5.003	4.997	-0.737	0.0	7.8
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GTA Civils Ltd		Page 44
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.025 US/MH Headwall 8 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.001	4.994	-0.739	0.0	7.8	1890	4.975	4.964	-0.765	0.0	7.7
1780	4.998	4.992	-0.742	0.0	7.7	1900	4.973	4.961	-0.767	0.0	7.7
1790	4.996	4.989	-0.744	0.0	7.7	1910	4.971	4.958	-0.769	0.0	7.7
1800	4.994	4.987	-0.746	0.0	7.7	1920	4.969	4.956	-0.771	0.0	7.7
1810	4.992	4.984	-0.748	0.0	7.7	1930	4.967	4.953	-0.773	0.0	7.7
1820	4.990	4.982	-0.750	0.0	7.7	1940	4.966	4.951	-0.774	0.0	7.7
1830	4.987	4.979	-0.753	0.0	7.7	1950	4.964	4.948	-0.776	0.0	7.7
1840	4.985	4.976	-0.755	0.0	7.7	1960	4.962	4.945	-0.778	0.0	7.7
1850	4.983	4.974	-0.757	0.0	7.7	1970	4.960	4.943	-0.780	0.0	7.7
1860	4.981	4.971	-0.759	0.0	7.7	1980	4.959	4.940	-0.781	0.0	7.7
1870	4.979	4.969	-0.761	0.0	7.7	1990	4.957	4.937	-0.783	0.0	7.7
1880	4.977	4.966	-0.763	0.0	7.7	2000	4.956	4.935	-0.784	0.0	7.7

GTA Civils Ltd						Page 47					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.000 US/MH SWMH8.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.560	5.535	-0.450	0.0	0.0	1110	5.560	5.535	-0.450	0.0	0.0
900	5.560	5.535	-0.450	0.0	0.0	1120	5.560	5.535	-0.450	0.0	0.0
910	5.560	5.535	-0.450	0.0	0.0	1130	5.560	5.535	-0.450	0.0	0.0
920	5.560	5.535	-0.450	0.0	0.0	1140	5.560	5.535	-0.450	0.0	0.0
930	5.560	5.535	-0.450	0.0	0.0	1150	5.560	5.535	-0.450	0.0	0.0
940	5.560	5.535	-0.450	0.0	0.0	1160	5.560	5.535	-0.450	0.0	0.0
950	5.560	5.535	-0.450	0.0	0.0	1170	5.560	5.535	-0.450	0.0	0.0
960	5.560	5.535	-0.450	0.0	0.0	1180	5.560	5.535	-0.450	0.0	0.0
970	5.560	5.535	-0.450	0.0	0.0	1190	5.560	5.535	-0.450	0.0	0.0
980	5.560	5.535	-0.450	0.0	0.0	1200	5.560	5.535	-0.450	0.0	0.0
990	5.560	5.535	-0.450	0.0	0.0	1210	5.560	5.535	-0.450	0.0	0.0
1000	5.560	5.535	-0.450	0.0	0.0	1220	5.560	5.535	-0.450	0.0	0.0
1010	5.560	5.535	-0.450	0.0	0.0	1230	5.560	5.535	-0.450	0.0	0.0
1020	5.560	5.535	-0.450	0.0	0.0	1240	5.560	5.535	-0.450	0.0	0.0
1030	5.560	5.535	-0.450	0.0	0.0	1250	5.560	5.535	-0.450	0.0	0.0
1040	5.560	5.535	-0.450	0.0	0.0	1260	5.560	5.535	-0.450	0.0	0.0
1050	5.560	5.535	-0.450	0.0	0.0	1270	5.560	5.535	-0.450	0.0	0.0
1060	5.560	5.535	-0.450	0.0	0.0	1280	5.560	5.535	-0.450	0.0	0.0
1070	5.560	5.535	-0.450	0.0	0.0	1290	5.560	5.535	-0.450	0.0	0.0
1080	5.560	5.535	-0.450	0.0	0.0	1300	5.560	5.535	-0.450	0.0	0.0
1090	5.560	5.535	-0.450	0.0	0.0	1310	5.560	5.535	-0.450	0.0	0.0
1100	5.560	5.535	-0.450	0.0	0.0	1320	5.560	5.535	-0.450	0.0	0.0
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GTA Civils Ltd						Page 48					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 8.000 US/MH SWMH8.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.560	5.535	-0.450	0.0	0.0	1550	5.560	5.535	-0.450	0.0	0.0
1340	5.560	5.535	-0.450	0.0	0.0	1560	5.560	5.535	-0.450	0.0	0.0
1350	5.560	5.535	-0.450	0.0	0.0	1570	5.560	5.535	-0.450	0.0	0.0
1360	5.560	5.535	-0.450	0.0	0.0	1580	5.560	5.535	-0.450	0.0	0.0
1370	5.560	5.535	-0.450	0.0	0.0	1590	5.560	5.535	-0.450	0.0	0.0
1380	5.560	5.535	-0.450	0.0	0.0	1600	5.560	5.535	-0.450	0.0	0.0
1390	5.560	5.535	-0.450	0.0	0.0	1610	5.560	5.535	-0.450	0.0	0.0
1400	5.560	5.535	-0.450	0.0	0.0	1620	5.560	5.535	-0.450	0.0	0.0
1410	5.560	5.535	-0.450	0.0	0.0	1630	5.560	5.535	-0.450	0.0	0.0
1420	5.560	5.535	-0.450	0.0	0.0	1640	5.560	5.535	-0.450	0.0	0.0
1430	5.560	5.535	-0.450	0.0	0.0	1650	5.560	5.535	-0.450	0.0	0.0
1440	5.560	5.535	-0.450	0.0	0.0	1660	5.560	5.535	-0.450	0.0	0.0
1450	5.560	5.535	-0.450	0.0	0.0	1670	5.560	5.535	-0.450	0.0	0.0
1460	5.560	5.535	-0.450	0.0	0.0	1680	5.560	5.535	-0.450	0.0	0.0
1470	5.560	5.535	-0.450	0.0	0.0	1690	5.560	5.535	-0.450	0.0	0.0
1480	5.560	5.535	-0.450	0.0	0.0	1700	5.560	5.535	-0.450	0.0	0.0
1490	5.560	5.535	-0.450	0.0	0.0	1710	5.560	5.535	-0.450	0.0	0.0
1500	5.560	5.535	-0.450	0.0	0.0	1720	5.560	5.535	-0.450	0.0	0.0
1510	5.560	5.535	-0.450	0.0	0.0	1730	5.560	5.535	-0.450	0.0	0.0
1520	5.560	5.535	-0.450	0.0	0.0	1740	5.560	5.535	-0.450	0.0	0.0
1530	5.560	5.535	-0.450	0.0	0.0	1750	5.560	5.535	-0.450	0.0	0.0
1540	5.560	5.535	-0.450	0.0	0.0	1760	5.560	5.535	-0.450	0.0	0.0
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GTA Civils Ltd						Page 50					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.001 US/MH SWMH8.2 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	5.537	5.483	-0.448	0.0	0.1	230	5.583	5.533	-0.402	0.0	2.9
20	5.542	5.489	-0.443	0.0	0.3	240	5.585	5.536	-0.400	0.0	3.2
30	5.545	5.493	-0.440	0.0	0.5	250	5.587	5.538	-0.398	0.0	3.6
40	5.548	5.497	-0.437	0.0	0.7	260	5.589	5.541	-0.396	0.0	3.8
50	5.549	5.498	-0.436	0.0	0.8	270	5.590	5.543	-0.395	0.0	4.1
60	5.550	5.500	-0.435	0.0	0.8	280	5.592	5.545	-0.393	0.0	4.4
70	5.550	5.500	-0.435	0.0	0.8	290	5.593	5.546	-0.392	0.0	4.6
80	5.550	5.500	-0.435	0.0	0.8	300	5.594	5.547	-0.391	0.0	4.7
90	5.550	5.500	-0.435	0.0	0.8	310	5.594	5.547	-0.391	0.0	4.7
100	5.550	5.500	-0.435	0.0	0.8	320	5.593	5.546	-0.392	0.0	4.6
110	5.551	5.500	-0.434	0.0	0.8	330	5.592	5.545	-0.393	0.0	4.4
120	5.551	5.501	-0.434	0.0	0.9	340	5.590	5.543	-0.395	0.0	4.2
130	5.552	5.502	-0.433	0.0	0.9	350	5.589	5.541	-0.396	0.0	3.9
140	5.554	5.504	-0.431	0.0	1.0	360	5.587	5.538	-0.398	0.0	3.6
150	5.555	5.507	-0.430	0.0	1.1	370	5.585	5.536	-0.400	0.0	3.3
160	5.558	5.510	-0.427	0.0	1.2	380	5.583	5.533	-0.402	0.0	3.0
170	5.562	5.515	-0.423	0.0	1.4	390	5.581	5.531	-0.404	0.0	2.7
180	5.565	5.519	-0.420	0.0	1.6	400	5.578	5.529	-0.407	0.0	2.4
190	5.570	5.524	-0.415	0.0	1.8	410	5.574	5.526	-0.411	0.0	2.1
200	5.574	5.526	-0.411	0.0	2.0	420	5.570	5.524	-0.415	0.0	1.9
210	5.578	5.529	-0.407	0.0	2.3	430	5.566	5.520	-0.419	0.0	1.7
220	5.581	5.531	-0.404	0.0	2.6	440	5.562	5.515	-0.423	0.0	1.5
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GTA Civils Ltd						Page 52					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.001 US/MH SWMH8.2 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.535	5.480	-0.450	0.0	0.0	1110	5.535	5.480	-0.450	0.0	0.0
900	5.535	5.480	-0.450	0.0	0.0	1120	5.535	5.480	-0.450	0.0	0.0
910	5.535	5.480	-0.450	0.0	0.0	1130	5.535	5.480	-0.450	0.0	0.0
920	5.535	5.480	-0.450	0.0	0.0	1140	5.535	5.480	-0.450	0.0	0.0
930	5.535	5.480	-0.450	0.0	0.0	1150	5.535	5.480	-0.450	0.0	0.0
940	5.535	5.480	-0.450	0.0	0.0	1160	5.535	5.480	-0.450	0.0	0.0
950	5.535	5.480	-0.450	0.0	0.0	1170	5.535	5.480	-0.450	0.0	0.0
960	5.535	5.480	-0.450	0.0	0.0	1180	5.535	5.480	-0.450	0.0	0.0
970	5.535	5.480	-0.450	0.0	0.0	1190	5.535	5.480	-0.450	0.0	0.0
980	5.535	5.480	-0.450	0.0	0.0	1200	5.535	5.480	-0.450	0.0	0.0
990	5.535	5.480	-0.450	0.0	0.0	1210	5.535	5.480	-0.450	0.0	0.0
1000	5.535	5.480	-0.450	0.0	0.0	1220	5.535	5.480	-0.450	0.0	0.0
1010	5.535	5.480	-0.450	0.0	0.0	1230	5.535	5.480	-0.450	0.0	0.0
1020	5.535	5.480	-0.450	0.0	0.0	1240	5.535	5.480	-0.450	0.0	0.0
1030	5.535	5.480	-0.450	0.0	0.0	1250	5.535	5.480	-0.450	0.0	0.0
1040	5.535	5.480	-0.450	0.0	0.0	1260	5.535	5.480	-0.450	0.0	0.0
1050	5.535	5.480	-0.450	0.0	0.0	1270	5.535	5.480	-0.450	0.0	0.0
1060	5.535	5.480	-0.450	0.0	0.0	1280	5.535	5.480	-0.450	0.0	0.0
1070	5.535	5.480	-0.450	0.0	0.0	1290	5.535	5.480	-0.450	0.0	0.0
1080	5.535	5.480	-0.450	0.0	0.0	1300	5.535	5.480	-0.450	0.0	0.0
1090	5.535	5.480	-0.450	0.0	0.0	1310	5.535	5.480	-0.450	0.0	0.0
1100	5.535	5.480	-0.450	0.0	0.0	1320	5.535	5.480	-0.450	0.0	0.0
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GTA Civils Ltd						Page 55					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.002 US/MH SWMH8.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	5.483	5.449	-0.447	0.0	0.1	230	5.533	5.502	-0.397	0.0	2.9
20	5.489	5.456	-0.441	0.0	0.3	240	5.536	5.505	-0.394	0.0	3.2
30	5.493	5.461	-0.437	0.0	0.5	250	5.538	5.508	-0.392	0.0	3.5
40	5.497	5.465	-0.433	0.0	0.7	260	5.541	5.510	-0.389	0.0	3.8
50	5.498	5.467	-0.432	0.0	0.7	270	5.543	5.512	-0.387	0.0	4.1
60	5.500	5.468	-0.430	0.0	0.8	280	5.545	5.515	-0.385	0.0	4.3
70	5.500	5.468	-0.430	0.0	0.8	290	5.546	5.516	-0.384	0.0	4.5
80	5.500	5.468	-0.430	0.0	0.8	300	5.547	5.517	-0.383	0.0	4.7
90	5.500	5.468	-0.430	0.0	0.8	310	5.547	5.517	-0.383	0.0	4.7
100	5.500	5.468	-0.430	0.0	0.8	320	5.546	5.516	-0.384	0.0	4.6
110	5.500	5.469	-0.430	0.0	0.8	330	5.545	5.515	-0.385	0.0	4.4
120	5.501	5.469	-0.429	0.0	0.9	340	5.543	5.512	-0.387	0.0	4.2
130	5.502	5.471	-0.428	0.0	0.9	350	5.541	5.510	-0.389	0.0	3.9
140	5.504	5.473	-0.426	0.0	1.0	360	5.538	5.508	-0.392	0.0	3.6
150	5.507	5.476	-0.423	0.0	1.1	370	5.536	5.505	-0.394	0.0	3.3
160	5.510	5.480	-0.420	0.0	1.2	380	5.533	5.502	-0.397	0.0	3.0
170	5.515	5.484	-0.415	0.0	1.3	390	5.531	5.499	-0.399	0.0	2.7
180	5.519	5.490	-0.411	0.0	1.5	400	5.529	5.497	-0.401	0.0	2.4
190	5.524	5.492	-0.406	0.0	1.8	410	5.526	5.494	-0.404	0.0	2.2
200	5.526	5.494	-0.404	0.0	2.0	420	5.524	5.492	-0.406	0.0	1.9
210	5.529	5.497	-0.401	0.0	2.3	430	5.520	5.490	-0.410	0.0	1.7
220	5.531	5.499	-0.399	0.0	2.6	440	5.515	5.485	-0.415	0.0	1.5
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GTA Civils Ltd						Page 56					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.002 US/MH SWMH8.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.511	5.480	-0.419	0.0	1.3	670	5.480	5.445	-0.450	0.0	0.0
460	5.507	5.476	-0.423	0.0	1.2	680	5.480	5.445	-0.450	0.0	0.0
470	5.504	5.473	-0.426	0.0	1.0	690	5.480	5.445	-0.450	0.0	0.0
480	5.503	5.471	-0.427	0.0	1.0	700	5.480	5.445	-0.450	0.0	0.0
490	5.501	5.470	-0.429	0.0	0.9	710	5.480	5.445	-0.450	0.0	0.0
500	5.500	5.469	-0.430	0.0	0.9	720	5.480	5.445	-0.450	0.0	0.0
510	5.500	5.468	-0.430	0.0	0.8	730	5.480	5.445	-0.450	0.0	0.0
520	5.500	5.468	-0.430	0.0	0.8	740	5.480	5.445	-0.450	0.0	0.0
530	5.500	5.468	-0.430	0.0	0.8	750	5.480	5.445	-0.450	0.0	0.0
540	5.500	5.468	-0.430	0.0	0.8	760	5.480	5.445	-0.450	0.0	0.0
550	5.500	5.468	-0.430	0.0	0.8	770	5.480	5.445	-0.450	0.0	0.0
560	5.499	5.467	-0.431	0.0	0.8	780	5.480	5.445	-0.450	0.0	0.0
570	5.497	5.465	-0.433	0.0	0.7	790	5.480	5.445	-0.450	0.0	0.0
580	5.493	5.461	-0.437	0.0	0.6	800	5.480	5.445	-0.450	0.0	0.0
590	5.489	5.456	-0.441	0.0	0.4	810	5.480	5.445	-0.450	0.0	0.0
600	5.483	5.449	-0.447	0.0	0.2	820	5.480	5.445	-0.450	0.0	0.0
610	5.480	5.445	-0.450	0.0	0.0	830	5.480	5.445	-0.450	0.0	0.0
620	5.480	5.445	-0.450	0.0	0.0	840	5.480	5.445	-0.450	0.0	0.0
630	5.480	5.445	-0.450	0.0	0.0	850	5.480	5.445	-0.450	0.0	0.0
640	5.480	5.445	-0.450	0.0	0.0	860	5.480	5.445	-0.450	0.0	0.0
650	5.480	5.445	-0.450	0.0	0.0	870	5.480	5.445	-0.450	0.0	0.0
660	5.480	5.445	-0.450	0.0	0.0	880	5.480	5.445	-0.450	0.0	0.0
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GTA Civils Ltd						Page 57					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 8.002 US/MH SWMH8.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.480	5.445	-0.450	0.0	0.0	1110	5.480	5.445	-0.450	0.0	0.0
900	5.480	5.445	-0.450	0.0	0.0	1120	5.480	5.445	-0.450	0.0	0.0
910	5.480	5.445	-0.450	0.0	0.0	1130	5.480	5.445	-0.450	0.0	0.0
920	5.480	5.445	-0.450	0.0	0.0	1140	5.480	5.445	-0.450	0.0	0.0
930	5.480	5.445	-0.450	0.0	0.0	1150	5.480	5.445	-0.450	0.0	0.0
940	5.480	5.445	-0.450	0.0	0.0	1160	5.480	5.445	-0.450	0.0	0.0
950	5.480	5.445	-0.450	0.0	0.0	1170	5.480	5.445	-0.450	0.0	0.0
960	5.480	5.445	-0.450	0.0	0.0	1180	5.480	5.445	-0.450	0.0	0.0
970	5.480	5.445	-0.450	0.0	0.0	1190	5.480	5.445	-0.450	0.0	0.0
980	5.480	5.445	-0.450	0.0	0.0	1200	5.480	5.445	-0.450	0.0	0.0
990	5.480	5.445	-0.450	0.0	0.0	1210	5.480	5.445	-0.450	0.0	0.0
1000	5.480	5.445	-0.450	0.0	0.0	1220	5.480	5.445	-0.450	0.0	0.0
1010	5.480	5.445	-0.450	0.0	0.0	1230	5.480	5.445	-0.450	0.0	0.0
1020	5.480	5.445	-0.450	0.0	0.0	1240	5.480	5.445	-0.450	0.0	0.0
1030	5.480	5.445	-0.450	0.0	0.0	1250	5.480	5.445	-0.450	0.0	0.0
1040	5.480	5.445	-0.450	0.0	0.0	1260	5.480	5.445	-0.450	0.0	0.0
1050	5.480	5.445	-0.450	0.0	0.0	1270	5.480	5.445	-0.450	0.0	0.0
1060	5.480	5.445	-0.450	0.0	0.0	1280	5.480	5.445	-0.450	0.0	0.0
1070	5.480	5.445	-0.450	0.0	0.0	1290	5.480	5.445	-0.450	0.0	0.0
1080	5.480	5.445	-0.450	0.0	0.0	1300	5.480	5.445	-0.450	0.0	0.0
1090	5.480	5.445	-0.450	0.0	0.0	1310	5.480	5.445	-0.450	0.0	0.0
1100	5.480	5.445	-0.450	0.0	0.0	1320	5.480	5.445	-0.450	0.0	0.0
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GTA Civils Ltd						Page 58					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.002 US/MH SWMH8.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.480	5.445	-0.450	0.0	0.0	1550	5.480	5.445	-0.450	0.0	0.0
1340	5.480	5.445	-0.450	0.0	0.0	1560	5.480	5.445	-0.450	0.0	0.0
1350	5.480	5.445	-0.450	0.0	0.0	1570	5.480	5.445	-0.450	0.0	0.0
1360	5.480	5.445	-0.450	0.0	0.0	1580	5.480	5.445	-0.450	0.0	0.0
1370	5.480	5.445	-0.450	0.0	0.0	1590	5.480	5.445	-0.450	0.0	0.0
1380	5.480	5.445	-0.450	0.0	0.0	1600	5.480	5.445	-0.450	0.0	0.0
1390	5.480	5.445	-0.450	0.0	0.0	1610	5.480	5.445	-0.450	0.0	0.0
1400	5.480	5.445	-0.450	0.0	0.0	1620	5.480	5.445	-0.450	0.0	0.0
1410	5.480	5.445	-0.450	0.0	0.0	1630	5.480	5.445	-0.450	0.0	0.0
1420	5.480	5.445	-0.450	0.0	0.0	1640	5.480	5.445	-0.450	0.0	0.0
1430	5.480	5.445	-0.450	0.0	0.0	1650	5.480	5.445	-0.450	0.0	0.0
1440	5.480	5.445	-0.450	0.0	0.0	1660	5.480	5.445	-0.450	0.0	0.0
1450	5.480	5.445	-0.450	0.0	0.0	1670	5.480	5.445	-0.450	0.0	0.0
1460	5.480	5.445	-0.450	0.0	0.0	1680	5.480	5.445	-0.450	0.0	0.0
1470	5.480	5.445	-0.450	0.0	0.0	1690	5.480	5.445	-0.450	0.0	0.0
1480	5.480	5.445	-0.450	0.0	0.0	1700	5.480	5.445	-0.450	0.0	0.0
1490	5.480	5.445	-0.450	0.0	0.0	1710	5.480	5.445	-0.450	0.0	0.0
1500	5.480	5.445	-0.450	0.0	0.0	1720	5.480	5.445	-0.450	0.0	0.0
1510	5.480	5.445	-0.450	0.0	0.0	1730	5.480	5.445	-0.450	0.0	0.0
1520	5.480	5.445	-0.450	0.0	0.0	1740	5.480	5.445	-0.450	0.0	0.0
1530	5.480	5.445	-0.450	0.0	0.0	1750	5.480	5.445	-0.450	0.0	0.0
1540	5.480	5.445	-0.450	0.0	0.0	1760	5.480	5.445	-0.450	0.0	0.0
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GTA Civils Ltd						Page 60					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.003 US/MH SWMH8.4 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	5.449	5.424	-0.446	0.0	0.1	230	5.502	5.478	-0.393	0.0	3.9
20	5.456	5.431	-0.439	0.0	0.4	240	5.505	5.480	-0.390	0.0	4.3
30	5.461	5.436	-0.434	0.0	0.7	250	5.508	5.483	-0.387	0.0	4.7
40	5.465	5.440	-0.430	0.0	0.9	260	5.510	5.486	-0.385	0.0	5.1
50	5.467	5.442	-0.428	0.0	1.0	270	5.512	5.488	-0.383	0.0	5.5
60	5.468	5.443	-0.427	0.0	1.1	280	5.515	5.490	-0.380	0.0	5.8
70	5.468	5.444	-0.427	0.0	1.1	290	5.516	5.492	-0.379	0.0	6.1
80	5.468	5.444	-0.427	0.0	1.1	300	5.517	5.493	-0.378	0.0	6.3
90	5.468	5.444	-0.427	0.0	1.1	310	5.517	5.493	-0.378	0.0	6.3
100	5.468	5.444	-0.427	0.0	1.1	320	5.516	5.492	-0.379	0.0	6.2
110	5.469	5.444	-0.426	0.0	1.1	330	5.515	5.490	-0.380	0.0	6.0
120	5.469	5.445	-0.426	0.0	1.2	340	5.512	5.488	-0.383	0.0	5.6
130	5.471	5.447	-0.424	0.0	1.2	350	5.510	5.486	-0.385	0.0	5.3
140	5.473	5.449	-0.422	0.0	1.3	360	5.508	5.483	-0.387	0.0	4.9
150	5.476	5.451	-0.419	0.0	1.4	370	5.505	5.480	-0.390	0.0	4.5
160	5.480	5.456	-0.415	0.0	1.6	380	5.502	5.478	-0.393	0.0	4.1
170	5.484	5.460	-0.411	0.0	1.8	390	5.499	5.475	-0.396	0.0	3.7
180	5.490	5.465	-0.405	0.0	2.0	400	5.497	5.472	-0.398	0.0	3.3
190	5.492	5.467	-0.403	0.0	2.4	410	5.494	5.470	-0.401	0.0	2.9
200	5.494	5.470	-0.401	0.0	2.7	420	5.492	5.468	-0.403	0.0	2.6
210	5.497	5.472	-0.398	0.0	3.1	430	5.490	5.465	-0.405	0.0	2.3
220	5.499	5.475	-0.396	0.0	3.5	440	5.485	5.461	-0.410	0.0	2.0
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GTA Civils Ltd						Page 61					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 8.003 US/MH SWMH8.4 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.480	5.456	-0.415	0.0	1.8	670	5.445	5.420	-0.450	0.0	0.0
460	5.476	5.452	-0.419	0.0	1.6	680	5.445	5.420	-0.450	0.0	0.0
470	5.473	5.449	-0.422	0.0	1.4	690	5.445	5.420	-0.450	0.0	0.0
480	5.471	5.447	-0.424	0.0	1.3	700	5.445	5.420	-0.450	0.0	0.0
490	5.470	5.445	-0.425	0.0	1.2	710	5.445	5.420	-0.450	0.0	0.0
500	5.469	5.444	-0.426	0.0	1.2	720	5.445	5.420	-0.450	0.0	0.0
510	5.468	5.444	-0.427	0.0	1.1	730	5.445	5.420	-0.450	0.0	0.0
520	5.468	5.444	-0.427	0.0	1.1	740	5.445	5.420	-0.450	0.0	0.0
530	5.468	5.444	-0.427	0.0	1.1	750	5.445	5.420	-0.450	0.0	0.0
540	5.468	5.444	-0.427	0.0	1.1	760	5.445	5.420	-0.450	0.0	0.0
550	5.468	5.443	-0.427	0.0	1.1	770	5.445	5.420	-0.450	0.0	0.0
560	5.467	5.442	-0.428	0.0	1.1	780	5.445	5.420	-0.450	0.0	0.0
570	5.465	5.440	-0.430	0.0	1.0	790	5.445	5.420	-0.450	0.0	0.0
580	5.461	5.436	-0.434	0.0	0.8	800	5.445	5.420	-0.450	0.0	0.0
590	5.456	5.431	-0.439	0.0	0.6	810	5.445	5.420	-0.450	0.0	0.0
600	5.449	5.424	-0.446	0.0	0.3	820	5.445	5.420	-0.450	0.0	0.0
610	5.445	5.420	-0.450	0.0	0.1	830	5.445	5.420	-0.450	0.0	0.0
620	5.445	5.420	-0.450	0.0	0.0	840	5.445	5.420	-0.450	0.0	0.0
630	5.445	5.420	-0.450	0.0	0.0	850	5.445	5.420	-0.450	0.0	0.0
640	5.445	5.420	-0.450	0.0	0.0	860	5.445	5.420	-0.450	0.0	0.0
650	5.445	5.420	-0.450	0.0	0.0	870	5.445	5.420	-0.450	0.0	0.0
660	5.445	5.420	-0.450	0.0	0.0	880	5.445	5.420	-0.450	0.0	0.0
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GTA Civils Ltd						Page 62					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.003 US/MH SWMH8.4 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.445	5.420	-0.450	0.0	0.0	1110	5.445	5.420	-0.450	0.0	0.0
900	5.445	5.420	-0.450	0.0	0.0	1120	5.445	5.420	-0.450	0.0	0.0
910	5.445	5.420	-0.450	0.0	0.0	1130	5.445	5.420	-0.450	0.0	0.0
920	5.445	5.420	-0.450	0.0	0.0	1140	5.445	5.420	-0.450	0.0	0.0
930	5.445	5.420	-0.450	0.0	0.0	1150	5.445	5.420	-0.450	0.0	0.0
940	5.445	5.420	-0.450	0.0	0.0	1160	5.445	5.420	-0.450	0.0	0.0
950	5.445	5.420	-0.450	0.0	0.0	1170	5.445	5.420	-0.450	0.0	0.0
960	5.445	5.420	-0.450	0.0	0.0	1180	5.445	5.420	-0.450	0.0	0.0
970	5.445	5.420	-0.450	0.0	0.0	1190	5.445	5.420	-0.450	0.0	0.0
980	5.445	5.420	-0.450	0.0	0.0	1200	5.445	5.420	-0.450	0.0	0.0
990	5.445	5.420	-0.450	0.0	0.0	1210	5.445	5.420	-0.450	0.0	0.0
1000	5.445	5.420	-0.450	0.0	0.0	1220	5.445	5.420	-0.450	0.0	0.0
1010	5.445	5.420	-0.450	0.0	0.0	1230	5.445	5.420	-0.450	0.0	0.0
1020	5.445	5.420	-0.450	0.0	0.0	1240	5.445	5.420	-0.450	0.0	0.0
1030	5.445	5.420	-0.450	0.0	0.0	1250	5.445	5.420	-0.450	0.0	0.0
1040	5.445	5.420	-0.450	0.0	0.0	1260	5.445	5.420	-0.450	0.0	0.0
1050	5.445	5.420	-0.450	0.0	0.0	1270	5.445	5.420	-0.450	0.0	0.0
1060	5.445	5.420	-0.450	0.0	0.0	1280	5.445	5.420	-0.450	0.0	0.0
1070	5.445	5.420	-0.450	0.0	0.0	1290	5.445	5.420	-0.450	0.0	0.0
1080	5.445	5.420	-0.450	0.0	0.0	1300	5.445	5.420	-0.450	0.0	0.0
1090	5.445	5.420	-0.450	0.0	0.0	1310	5.445	5.420	-0.450	0.0	0.0
1100	5.445	5.420	-0.450	0.0	0.0	1320	5.445	5.420	-0.450	0.0	0.0
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GTA Civils Ltd						Page 63					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.003 US/MH SWMH8.4 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.445	5.420	-0.450	0.0	0.0	1550	5.445	5.420	-0.450	0.0	0.0
1340	5.445	5.420	-0.450	0.0	0.0	1560	5.445	5.420	-0.450	0.0	0.0
1350	5.445	5.420	-0.450	0.0	0.0	1570	5.445	5.420	-0.450	0.0	0.0
1360	5.445	5.420	-0.450	0.0	0.0	1580	5.445	5.420	-0.450	0.0	0.0
1370	5.445	5.420	-0.450	0.0	0.0	1590	5.445	5.420	-0.450	0.0	0.0
1380	5.445	5.420	-0.450	0.0	0.0	1600	5.445	5.420	-0.450	0.0	0.0
1390	5.445	5.420	-0.450	0.0	0.0	1610	5.445	5.420	-0.450	0.0	0.0
1400	5.445	5.420	-0.450	0.0	0.0	1620	5.445	5.420	-0.450	0.0	0.0
1410	5.445	5.420	-0.450	0.0	0.0	1630	5.445	5.420	-0.450	0.0	0.0
1420	5.445	5.420	-0.450	0.0	0.0	1640	5.445	5.420	-0.450	0.0	0.0
1430	5.445	5.420	-0.450	0.0	0.0	1650	5.445	5.420	-0.450	0.0	0.0
1440	5.445	5.420	-0.450	0.0	0.0	1660	5.445	5.420	-0.450	0.0	0.0
1450	5.445	5.420	-0.450	0.0	0.0	1670	5.445	5.420	-0.450	0.0	0.0
1460	5.445	5.420	-0.450	0.0	0.0	1680	5.445	5.420	-0.450	0.0	0.0
1470	5.445	5.420	-0.450	0.0	0.0	1690	5.445	5.420	-0.450	0.0	0.0
1480	5.445	5.420	-0.450	0.0	0.0	1700	5.445	5.420	-0.450	0.0	0.0
1490	5.445	5.420	-0.450	0.0	0.0	1710	5.445	5.420	-0.450	0.0	0.0
1500	5.445	5.420	-0.450	0.0	0.0	1720	5.445	5.420	-0.450	0.0	0.0
1510	5.445	5.420	-0.450	0.0	0.0	1730	5.445	5.420	-0.450	0.0	0.0
1520	5.445	5.420	-0.450	0.0	0.0	1740	5.445	5.420	-0.450	0.0	0.0
1530	5.445	5.420	-0.450	0.0	0.0	1750	5.445	5.420	-0.450	0.0	0.0
1540	5.445	5.420	-0.450	0.0	0.0	1760	5.445	5.420	-0.450	0.0	0.0
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GTA Civils Ltd		Page 64
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.003 US/MH SWMH8.4 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.445	5.420	-0.450	0.0	0.0	1890	5.445	5.420	-0.450	0.0	0.0
1780	5.445	5.420	-0.450	0.0	0.0	1900	5.445	5.420	-0.450	0.0	0.0
1790	5.445	5.420	-0.450	0.0	0.0	1910	5.445	5.420	-0.450	0.0	0.0
1800	5.445	5.420	-0.450	0.0	0.0	1920	5.445	5.420	-0.450	0.0	0.0
1810	5.445	5.420	-0.450	0.0	0.0	1930	5.445	5.420	-0.450	0.0	0.0
1820	5.445	5.420	-0.450	0.0	0.0	1940	5.445	5.420	-0.450	0.0	0.0
1830	5.445	5.420	-0.450	0.0	0.0	1950	5.445	5.420	-0.450	0.0	0.0
1840	5.445	5.420	-0.450	0.0	0.0	1960	5.445	5.420	-0.450	0.0	0.0
1850	5.445	5.420	-0.450	0.0	0.0	1970	5.445	5.420	-0.450	0.0	0.0
1860	5.445	5.420	-0.450	0.0	0.0	1980	5.445	5.420	-0.450	0.0	0.0
1870	5.445	5.420	-0.450	0.0	0.0	1990	5.445	5.420	-0.450	0.0	0.0
1880	5.445	5.420	-0.450	0.0	0.0	2000	5.445	5.420	-0.450	0.0	0.0

GTA Civils Ltd						Page 65					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 8.004 US/MH SWMH8.5 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	5.424	4.986	-0.446	0.0	0.2	230	5.478	5.091	-0.392	0.0	5.7
20	5.431	4.998	-0.439	0.0	0.6	240	5.480	5.099	-0.390	0.0	6.3
30	5.436	5.009	-0.434	0.0	1.0	250	5.483	5.107	-0.387	0.0	7.0
40	5.440	5.018	-0.430	0.0	1.3	260	5.486	5.115	-0.384	0.0	7.6
50	5.442	5.023	-0.428	0.0	1.5	270	5.488	5.122	-0.382	0.0	8.1
60	5.443	5.027	-0.427	0.0	1.6	280	5.490	5.130	-0.380	0.0	8.6
70	5.444	5.028	-0.426	0.0	1.6	290	5.492	5.137	-0.378	0.0	9.0
80	5.444	5.028	-0.426	0.0	1.7	300	5.493	5.145	-0.377	0.0	9.3
90	5.444	5.028	-0.426	0.0	1.7	310	5.493	5.158	-0.377	0.0	9.4
100	5.444	5.028	-0.426	0.0	1.7	320	5.492	5.172	-0.378	0.0	9.2
110	5.444	5.029	-0.426	0.0	1.7	330	5.490	5.189	-0.380	0.0	8.8
120	5.445	5.030	-0.425	0.0	1.7	340	5.488	5.206	-0.382	0.0	8.4
130	5.447	5.033	-0.423	0.0	1.8	350	5.486	5.224	-0.384	0.0	7.8
140	5.449	5.037	-0.421	0.0	1.9	360	5.483	5.240	-0.387	0.0	7.3
150	5.451	5.041	-0.419	0.0	2.1	370	5.480	5.251	-0.390	0.0	6.7
160	5.456	5.047	-0.414	0.0	2.4	380	5.478	5.260	-0.392	0.0	6.0
170	5.460	5.054	-0.410	0.0	2.7	390	5.475	5.265	-0.395	0.0	5.5
180	5.465	5.058	-0.405	0.0	3.0	400	5.472	5.266	-0.398	0.0	4.9
190	5.467	5.063	-0.403	0.0	3.5	410	5.470	5.267	-0.400	0.0	4.3
200	5.470	5.069	-0.400	0.0	4.0	420	5.468	5.266	-0.402	0.0	3.8
210	5.472	5.075	-0.398	0.0	4.5	430	5.465	5.263	-0.405	0.0	3.4
220	5.475	5.083	-0.395	0.0	5.1	440	5.461	5.261	-0.409	0.0	3.0
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GTA Civils Ltd						Page 66					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.004 US/MH SWMH8.5 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.456	5.258	-0.414	0.0	2.7	670	5.420	5.239	-0.450	0.0	0.0
460	5.452	5.255	-0.418	0.0	2.3	680	5.420	5.237	-0.450	0.0	0.0
470	5.449	5.254	-0.421	0.0	2.1	690	5.420	5.235	-0.450	0.0	0.0
480	5.447	5.253	-0.423	0.0	1.9	700	5.420	5.233	-0.450	0.0	0.0
490	5.445	5.253	-0.425	0.0	1.8	710	5.420	5.231	-0.450	0.0	0.0
500	5.444	5.253	-0.426	0.0	1.7	720	5.420	5.229	-0.450	0.0	0.0
510	5.444	5.254	-0.426	0.0	1.7	730	5.420	5.227	-0.450	0.0	0.0
520	5.444	5.256	-0.426	0.0	1.7	740	5.420	5.225	-0.450	0.0	0.0
530	5.444	5.258	-0.426	0.0	1.7	750	5.420	5.223	-0.450	0.0	0.0
540	5.444	5.259	-0.426	0.0	1.7	760	5.420	5.221	-0.450	0.0	0.0
550	5.443	5.261	-0.427	0.0	1.6	770	5.420	5.219	-0.450	0.0	0.0
560	5.442	5.262	-0.428	0.0	1.6	780	5.420	5.217	-0.450	0.0	0.0
570	5.440	5.262	-0.430	0.0	1.5	790	5.420	5.215	-0.450	0.0	0.0
580	5.436	5.260	-0.434	0.0	1.2	800	5.420	5.213	-0.450	0.0	0.0
590	5.431	5.258	-0.439	0.0	0.9	810	5.420	5.211	-0.450	0.0	0.0
600	5.424	5.254	-0.446	0.0	0.4	820	5.420	5.209	-0.450	0.0	0.0
610	5.420	5.251	-0.450	0.0	0.1	830	5.420	5.207	-0.450	0.0	0.0
620	5.420	5.249	-0.450	0.0	0.0	840	5.420	5.205	-0.450	0.0	0.0
630	5.420	5.247	-0.450	0.0	0.0	850	5.420	5.203	-0.450	0.0	0.0
640	5.420	5.245	-0.450	0.0	0.0	860	5.420	5.201	-0.450	0.0	0.0
650	5.420	5.243	-0.450	0.0	0.0	870	5.420	5.199	-0.450	0.0	0.0
660	5.420	5.241	-0.450	0.0	0.0	880	5.420	5.196	-0.450	0.0	0.0
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GTA Civils Ltd						Page 67					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.004 US/MH SWMH8.5 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.420	5.195	-0.450	0.0	0.0	1110	5.420	5.148	-0.450	0.0	0.0
900	5.420	5.192	-0.450	0.0	0.0	1120	5.420	5.146	-0.450	0.0	0.0
910	5.420	5.191	-0.450	0.0	0.0	1130	5.420	5.144	-0.450	0.0	0.0
920	5.420	5.188	-0.450	0.0	0.0	1140	5.420	5.142	-0.450	0.0	0.0
930	5.420	5.186	-0.450	0.0	0.0	1150	5.420	5.139	-0.450	0.0	0.0
940	5.420	5.184	-0.450	0.0	0.0	1160	5.420	5.137	-0.450	0.0	0.0
950	5.420	5.182	-0.450	0.0	0.0	1170	5.420	5.135	-0.450	0.0	0.0
960	5.420	5.180	-0.450	0.0	0.0	1180	5.420	5.133	-0.450	0.0	0.0
970	5.420	5.178	-0.450	0.0	0.0	1190	5.420	5.131	-0.450	0.0	0.0
980	5.420	5.176	-0.450	0.0	0.0	1200	5.420	5.128	-0.450	0.0	0.0
990	5.420	5.174	-0.450	0.0	0.0	1210	5.420	5.126	-0.450	0.0	0.0
1000	5.420	5.172	-0.450	0.0	0.0	1220	5.420	5.124	-0.450	0.0	0.0
1010	5.420	5.170	-0.450	0.0	0.0	1230	5.420	5.122	-0.450	0.0	0.0
1020	5.420	5.168	-0.450	0.0	0.0	1240	5.420	5.119	-0.450	0.0	0.0
1030	5.420	5.165	-0.450	0.0	0.0	1250	5.420	5.117	-0.450	0.0	0.0
1040	5.420	5.163	-0.450	0.0	0.0	1260	5.420	5.115	-0.450	0.0	0.0
1050	5.420	5.161	-0.450	0.0	0.0	1270	5.420	5.113	-0.450	0.0	0.0
1060	5.420	5.159	-0.450	0.0	0.0	1280	5.420	5.111	-0.450	0.0	0.0
1070	5.420	5.157	-0.450	0.0	0.0	1290	5.420	5.108	-0.450	0.0	0.0
1080	5.420	5.155	-0.450	0.0	0.0	1300	5.420	5.106	-0.450	0.0	0.0
1090	5.420	5.152	-0.450	0.0	0.0	1310	5.420	5.104	-0.450	0.0	0.0
1100	5.420	5.150	-0.450	0.0	0.0	1320	5.420	5.101	-0.450	0.0	0.0
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GTA Civils Ltd						Page 68					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.004 US/MH SWMH8.5 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.420	5.099	-0.450	0.0	0.0	1550	5.420	5.048	-0.450	0.0	0.0
1340	5.420	5.097	-0.450	0.0	0.0	1560	5.420	5.046	-0.450	0.0	0.0
1350	5.420	5.095	-0.450	0.0	0.0	1570	5.420	5.043	-0.450	0.0	0.0
1360	5.420	5.092	-0.450	0.0	0.0	1580	5.420	5.041	-0.450	0.0	0.0
1370	5.420	5.090	-0.450	0.0	0.0	1590	5.420	5.038	-0.450	0.0	0.0
1380	5.420	5.088	-0.450	0.0	0.0	1600	5.420	5.036	-0.450	0.0	0.0
1390	5.420	5.085	-0.450	0.0	0.0	1610	5.420	5.034	-0.450	0.0	0.0
1400	5.420	5.083	-0.450	0.0	0.0	1620	5.420	5.031	-0.450	0.0	0.0
1410	5.420	5.081	-0.450	0.0	0.0	1630	5.420	5.029	-0.450	0.0	0.0
1420	5.420	5.079	-0.450	0.0	0.0	1640	5.420	5.026	-0.450	0.0	0.0
1430	5.420	5.076	-0.450	0.0	0.0	1650	5.420	5.024	-0.450	0.0	0.0
1440	5.420	5.074	-0.450	0.0	0.0	1660	5.420	5.021	-0.450	0.0	0.0
1450	5.420	5.072	-0.450	0.0	0.0	1670	5.420	5.019	-0.450	0.0	0.0
1460	5.420	5.069	-0.450	0.0	0.0	1680	5.420	5.017	-0.450	0.0	0.0
1470	5.420	5.067	-0.450	0.0	0.0	1690	5.420	5.014	-0.450	0.0	0.0
1480	5.420	5.065	-0.450	0.0	0.0	1700	5.420	5.012	-0.450	0.0	0.0
1490	5.420	5.062	-0.450	0.0	0.0	1710	5.420	5.009	-0.450	0.0	0.0
1500	5.420	5.060	-0.450	0.0	0.0	1720	5.420	5.007	-0.450	0.0	0.0
1510	5.420	5.058	-0.450	0.0	0.0	1730	5.420	5.004	-0.450	0.0	0.0
1520	5.420	5.055	-0.450	0.0	0.0	1740	5.420	5.001	-0.450	0.0	0.0
1530	5.420	5.053	-0.450	0.0	0.0	1750	5.420	4.999	-0.450	0.0	0.0
1540	5.420	5.051	-0.450	0.0	0.0	1760	5.420	4.996	-0.450	0.0	0.0
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GTA Civils Ltd		Page 69
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.004 US/MH SWMH8.5 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.420	4.994	-0.450	0.0	0.0	1890	5.420	4.980	-0.450	0.0	0.0
1780	5.420	4.991	-0.450	0.0	0.0	1900	5.420	4.980	-0.450	0.0	0.0
1790	5.420	4.989	-0.450	0.0	0.0	1910	5.420	4.980	-0.450	0.0	0.0
1800	5.420	4.986	-0.450	0.0	0.0	1920	5.420	4.980	-0.450	0.0	0.0
1810	5.420	4.984	-0.450	0.0	0.0	1930	5.420	4.980	-0.450	0.0	0.0
1820	5.420	4.982	-0.450	0.0	0.0	1940	5.420	4.980	-0.450	0.0	0.0
1830	5.420	4.980	-0.450	0.0	0.0	1950	5.420	4.980	-0.450	0.0	0.0
1840	5.420	4.980	-0.450	0.0	0.0	1960	5.420	4.980	-0.450	0.0	0.0
1850	5.420	4.980	-0.450	0.0	0.0	1970	5.420	4.980	-0.450	0.0	0.0
1860	5.420	4.980	-0.450	0.0	0.0	1980	5.420	4.980	-0.450	0.0	0.0
1870	5.420	4.980	-0.450	0.0	0.0	1990	5.420	4.980	-0.450	0.0	0.0
1880	5.420	4.980	-0.450	0.0	0.0	2000	5.420	4.980	-0.450	0.0	0.0

GTA Civils Ltd					Page 70						
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB			10768 - Sefter Road Simulation Network 1 Revision E								
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX			Designed by DT Checked by MR								
XP Solutions			Network 2020.1								
<u>Flows and Levels for Pipe 8.005 US/MH SWMH8.6 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.986	4.951	-0.744	0.0	0.2	230	5.091	5.072	-0.639	0.0	7.2
20	4.998	4.966	-0.732	0.0	0.7	240	5.099	5.081	-0.631	0.0	7.9
30	5.009	4.979	-0.721	0.0	1.2	250	5.107	5.090	-0.623	0.0	8.7
40	5.018	4.991	-0.712	0.0	1.6	260	5.115	5.098	-0.615	0.0	9.5
50	5.023	4.998	-0.707	0.0	1.8	270	5.122	5.106	-0.608	0.0	10.2
60	5.027	5.002	-0.703	0.0	2.0	280	5.130	5.114	-0.600	0.0	10.8
70	5.028	5.004	-0.702	0.0	2.1	290	5.137	5.123	-0.593	0.0	11.3
80	5.028	5.005	-0.702	0.0	2.1	300	5.145	5.134	-0.585	0.0	11.7
90	5.028	5.005	-0.702	0.0	2.1	310	5.158	5.149	-0.572	0.0	11.7
100	5.028	5.005	-0.702	0.0	2.1	320	5.172	5.166	-0.558	0.0	11.5
110	5.029	5.005	-0.701	0.0	2.1	330	5.189	5.185	-0.541	0.0	11.0
120	5.030	5.007	-0.700	0.0	2.2	340	5.206	5.204	-0.524	0.0	10.4
130	5.033	5.010	-0.697	0.0	2.3	350	5.224	5.222	-0.506	0.0	9.8
140	5.037	5.013	-0.693	0.0	2.4	360	5.240	5.239	-0.490	0.0	9.1
150	5.041	5.016	-0.689	0.0	2.6	370	5.251	5.250	-0.479	0.0	8.3
160	5.047	5.021	-0.683	0.0	3.0	380	5.260	5.259	-0.470	0.0	7.6
170	5.054	5.025	-0.676	0.0	3.3	390	5.265	5.264	-0.465	0.0	6.9
180	5.058	5.030	-0.672	0.0	3.8	400	5.266	5.266	-0.464	0.0	6.1
190	5.063	5.037	-0.667	0.0	4.4	410	5.267	5.266	-0.463	0.0	5.4
200	5.069	5.045	-0.661	0.0	5.0	420	5.266	5.265	-0.464	0.0	4.8
210	5.075	5.053	-0.655	0.0	5.7	430	5.263	5.263	-0.467	0.0	4.2
220	5.083	5.063	-0.647	0.0	6.4	440	5.261	5.260	-0.469	0.0	3.8
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GTA Civils Ltd						Page 71					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.005 US/MH SWMH8.6 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.258	5.258	-0.472	0.0	3.3	670	5.239	5.239	-0.491	0.0	0.0
460	5.255	5.255	-0.475	0.0	2.9	680	5.237	5.237	-0.493	0.0	0.0
470	5.254	5.253	-0.476	0.0	2.6	690	5.235	5.235	-0.495	0.0	0.0
480	5.253	5.253	-0.477	0.0	2.4	700	5.233	5.233	-0.497	0.0	0.0
490	5.253	5.253	-0.477	0.0	2.3	710	5.231	5.231	-0.499	0.0	0.0
500	5.253	5.253	-0.477	0.0	2.2	720	5.229	5.229	-0.501	0.0	0.0
510	5.254	5.254	-0.476	0.0	2.1	730	5.227	5.227	-0.503	0.0	0.0
520	5.256	5.256	-0.474	0.0	2.1	740	5.225	5.225	-0.505	0.0	0.0
530	5.258	5.257	-0.472	0.0	2.1	750	5.223	5.223	-0.507	0.0	0.0
540	5.259	5.259	-0.471	0.0	2.1	760	5.221	5.221	-0.509	0.0	0.0
550	5.261	5.261	-0.469	0.0	2.1	770	5.219	5.219	-0.511	0.0	0.0
560	5.262	5.261	-0.468	0.0	2.0	780	5.217	5.217	-0.513	0.0	0.0
570	5.262	5.262	-0.468	0.0	1.8	790	5.215	5.215	-0.515	0.0	0.0
580	5.260	5.260	-0.470	0.0	1.6	800	5.213	5.213	-0.517	0.0	0.0
590	5.258	5.258	-0.472	0.0	1.1	810	5.211	5.211	-0.519	0.0	0.0
600	5.254	5.254	-0.476	0.0	0.6	820	5.209	5.209	-0.521	0.0	0.0
610	5.251	5.251	-0.479	0.0	0.1	830	5.207	5.207	-0.523	0.0	0.0
620	5.249	5.249	-0.481	0.0	0.0	840	5.205	5.205	-0.525	0.0	0.0
630	5.247	5.247	-0.483	0.0	0.0	850	5.203	5.203	-0.527	0.0	0.0
640	5.245	5.245	-0.485	0.0	0.0	860	5.201	5.201	-0.529	0.0	0.0
650	5.243	5.243	-0.487	0.0	0.0	870	5.199	5.199	-0.531	0.0	0.0
660	5.241	5.241	-0.489	0.0	0.0	880	5.196	5.197	-0.534	0.0	0.0
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GTA Civils Ltd						Page 72					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.005 US/MH SWMH8.6 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.535	0.0	0.0	1110	5.148	5.148	-0.582	0.0	0.0
900	5.192	5.193	-0.538	0.0	0.0	1120	5.146	5.146	-0.584	0.0	0.0
910	5.191	5.191	-0.539	0.0	0.0	1130	5.144	5.144	-0.586	0.0	0.0
920	5.188	5.189	-0.542	0.0	0.0	1140	5.142	5.142	-0.588	0.0	0.0
930	5.186	5.187	-0.544	0.0	0.0	1150	5.139	5.140	-0.591	0.0	0.0
940	5.184	5.184	-0.546	0.0	0.0	1160	5.137	5.137	-0.593	0.0	0.0
950	5.182	5.182	-0.548	0.0	0.0	1170	5.135	5.135	-0.595	0.0	0.0
960	5.180	5.180	-0.550	0.0	0.0	1180	5.133	5.133	-0.597	0.0	0.0
970	5.178	5.178	-0.552	0.0	0.0	1190	5.131	5.131	-0.599	0.0	0.0
980	5.176	5.176	-0.554	0.0	0.0	1200	5.128	5.128	-0.602	0.0	0.0
990	5.174	5.174	-0.556	0.0	0.0	1210	5.126	5.126	-0.604	0.0	0.0
1000	5.172	5.172	-0.558	0.0	0.0	1220	5.124	5.124	-0.606	0.0	0.0
1010	5.170	5.170	-0.560	0.0	0.0	1230	5.122	5.122	-0.608	0.0	0.0
1020	5.168	5.168	-0.562	0.0	0.0	1240	5.119	5.119	-0.611	0.0	0.0
1030	5.165	5.165	-0.565	0.0	0.0	1250	5.117	5.117	-0.613	0.0	0.0
1040	5.163	5.163	-0.567	0.0	0.0	1260	5.115	5.115	-0.615	0.0	0.0
1050	5.161	5.161	-0.569	0.0	0.0	1270	5.113	5.113	-0.617	0.0	0.0
1060	5.159	5.159	-0.571	0.0	0.0	1280	5.111	5.111	-0.619	0.0	0.0
1070	5.157	5.157	-0.573	0.0	0.0	1290	5.108	5.108	-0.622	0.0	0.0
1080	5.155	5.155	-0.575	0.0	0.0	1300	5.106	5.106	-0.624	0.0	0.0
1090	5.152	5.152	-0.578	0.0	0.0	1310	5.104	5.104	-0.626	0.0	0.0
1100	5.150	5.150	-0.580	0.0	0.0	1320	5.101	5.102	-0.629	0.0	0.0
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GTA Civils Ltd						Page 73					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.005 US/MH SWMH8.6 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.099	5.099	-0.631	0.0	0.0	1550	5.048	5.048	-0.682	0.0	0.0
1340	5.097	5.097	-0.633	0.0	0.0	1560	5.046	5.046	-0.684	0.0	0.0
1350	5.095	5.095	-0.635	0.0	0.0	1570	5.043	5.043	-0.687	0.0	0.0
1360	5.092	5.092	-0.638	0.0	0.0	1580	5.041	5.041	-0.689	0.0	0.0
1370	5.090	5.090	-0.640	0.0	0.0	1590	5.038	5.038	-0.692	0.0	0.0
1380	5.088	5.088	-0.642	0.0	0.0	1600	5.036	5.036	-0.694	0.0	0.0
1390	5.085	5.086	-0.645	0.0	0.0	1610	5.034	5.034	-0.696	0.0	0.0
1400	5.083	5.083	-0.647	0.0	0.0	1620	5.031	5.031	-0.699	0.0	0.0
1410	5.081	5.081	-0.649	0.0	0.0	1630	5.029	5.029	-0.701	0.0	0.0
1420	5.079	5.079	-0.651	0.0	0.0	1640	5.026	5.026	-0.704	0.0	0.0
1430	5.076	5.076	-0.654	0.0	0.0	1650	5.024	5.024	-0.706	0.0	0.0
1440	5.074	5.074	-0.656	0.0	0.0	1660	5.021	5.021	-0.709	0.0	0.0
1450	5.072	5.072	-0.658	0.0	0.0	1670	5.019	5.019	-0.711	0.0	0.0
1460	5.069	5.069	-0.661	0.0	0.0	1680	5.017	5.017	-0.713	0.0	0.0
1470	5.067	5.067	-0.663	0.0	0.0	1690	5.014	5.014	-0.716	0.0	0.0
1480	5.065	5.065	-0.665	0.0	0.0	1700	5.012	5.012	-0.718	0.0	0.0
1490	5.062	5.062	-0.668	0.0	0.0	1710	5.009	5.009	-0.721	0.0	0.0
1500	5.060	5.060	-0.670	0.0	0.0	1720	5.007	5.006	-0.723	0.0	0.0
1510	5.058	5.058	-0.672	0.0	0.0	1730	5.004	5.004	-0.726	0.0	0.0
1520	5.055	5.055	-0.675	0.0	0.0	1740	5.001	5.001	-0.729	0.0	0.0
1530	5.053	5.053	-0.677	0.0	0.0	1750	4.999	4.999	-0.731	0.0	0.0
1540	5.051	5.051	-0.679	0.0	0.0	1760	4.996	4.996	-0.734	0.0	0.0
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GTA Civils Ltd		Page 74
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.005 US/MH SWMH8.6 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.736	0.0	0.0	1890	4.980	4.963	-0.750	0.0	0.0
1780	4.991	4.991	-0.739	0.0	0.0	1900	4.980	4.961	-0.750	0.0	0.0
1790	4.989	4.989	-0.741	0.0	0.0	1910	4.980	4.958	-0.750	0.0	0.0
1800	4.986	4.986	-0.744	0.0	0.0	1920	4.980	4.956	-0.750	0.0	0.0
1810	4.984	4.984	-0.746	0.0	0.0	1930	4.980	4.953	-0.750	0.0	0.0
1820	4.982	4.981	-0.748	0.0	0.0	1940	4.980	4.950	-0.750	0.0	0.0
1830	4.980	4.979	-0.750	0.0	0.0	1950	4.980	4.948	-0.750	0.0	0.0
1840	4.980	4.976	-0.750	0.0	0.0	1960	4.980	4.946	-0.750	0.0	0.0
1850	4.980	4.974	-0.750	0.0	0.0	1970	4.980	4.945	-0.750	0.0	0.0
1860	4.980	4.971	-0.750	0.0	0.0	1980	4.980	4.945	-0.750	0.0	0.0
1870	4.980	4.968	-0.750	0.0	0.0	1990	4.980	4.945	-0.750	0.0	0.0
1880	4.980	4.966	-0.750	0.0	0.0	2000	4.980	4.945	-0.750	0.0	0.0

GTA Civils Ltd						Page 75					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.006 US/MH SWMH8.7 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.951	4.939	-0.744	0.0	0.2	230	5.072	5.067	-0.623	0.0	7.4
20	4.966	4.956	-0.729	0.0	0.6	240	5.081	5.076	-0.614	0.0	8.2
30	4.979	4.972	-0.716	0.0	1.2	250	5.090	5.085	-0.605	0.0	9.0
40	4.991	4.984	-0.704	0.0	1.6	260	5.098	5.093	-0.597	0.0	9.8
50	4.998	4.992	-0.697	0.0	1.9	270	5.106	5.102	-0.589	0.0	10.6
60	5.002	4.996	-0.693	0.0	2.1	280	5.114	5.110	-0.581	0.0	11.2
70	5.004	4.998	-0.691	0.0	2.2	290	5.123	5.120	-0.572	0.0	11.8
80	5.005	4.998	-0.690	0.0	2.2	300	5.134	5.131	-0.561	0.0	12.1
90	5.005	4.998	-0.690	0.0	2.2	310	5.149	5.147	-0.546	0.0	12.1
100	5.005	4.998	-0.690	0.0	2.2	320	5.166	5.165	-0.529	0.0	11.7
110	5.005	4.999	-0.690	0.0	2.2	330	5.185	5.184	-0.510	0.0	11.1
120	5.007	5.000	-0.688	0.0	2.3	340	5.204	5.203	-0.491	0.0	10.5
130	5.010	5.003	-0.685	0.0	2.4	350	5.222	5.221	-0.473	0.0	9.8
140	5.013	5.006	-0.682	0.0	2.5	360	5.239	5.238	-0.456	0.0	9.1
150	5.016	5.008	-0.679	0.0	2.8	370	5.250	5.250	-0.445	0.0	8.4
160	5.021	5.012	-0.674	0.0	3.1	380	5.259	5.258	-0.436	0.0	7.7
170	5.025	5.017	-0.670	0.0	3.5	390	5.264	5.263	-0.431	0.0	7.1
180	5.030	5.023	-0.665	0.0	4.0	400	5.266	5.265	-0.429	0.0	6.4
190	5.037	5.031	-0.658	0.0	4.6	410	5.266	5.266	-0.429	0.0	5.7
200	5.045	5.040	-0.650	0.0	5.2	420	5.265	5.265	-0.430	0.0	5.1
210	5.053	5.048	-0.642	0.0	5.9	430	5.263	5.263	-0.432	0.0	4.5
220	5.063	5.058	-0.632	0.0	6.6	440	5.260	5.260	-0.435	0.0	4.0
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GTA Civils Ltd						Page 76					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.006 US/MH SWMH8.7 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.258	5.257	-0.437	0.0	3.6	670	5.239	5.239	-0.456	0.0	0.1
460	5.255	5.255	-0.440	0.0	3.2	680	5.237	5.237	-0.458	0.0	0.1
470	5.253	5.253	-0.442	0.0	2.8	690	5.235	5.235	-0.460	0.0	0.1
480	5.253	5.253	-0.442	0.0	2.6	700	5.233	5.233	-0.462	0.0	0.1
490	5.253	5.253	-0.442	0.0	2.4	710	5.231	5.231	-0.464	0.0	0.1
500	5.253	5.253	-0.442	0.0	2.3	720	5.229	5.230	-0.466	0.0	0.1
510	5.254	5.254	-0.441	0.0	2.2	730	5.227	5.227	-0.468	0.0	0.1
520	5.256	5.256	-0.439	0.0	2.2	740	5.225	5.226	-0.470	0.0	0.1
530	5.257	5.257	-0.438	0.0	2.1	750	5.223	5.223	-0.472	0.0	0.1
540	5.259	5.259	-0.436	0.0	2.1	760	5.221	5.221	-0.474	0.0	0.1
550	5.261	5.261	-0.434	0.0	2.1	770	5.219	5.219	-0.476	0.0	0.1
560	5.261	5.261	-0.434	0.0	2.1	780	5.217	5.217	-0.478	0.0	0.1
570	5.262	5.262	-0.433	0.0	1.9	790	5.215	5.215	-0.480	0.0	0.1
580	5.260	5.260	-0.435	0.0	1.7	800	5.213	5.213	-0.482	0.0	0.1
590	5.258	5.258	-0.437	0.0	1.3	810	5.211	5.211	-0.484	0.0	0.1
600	5.254	5.254	-0.441	0.0	0.7	820	5.209	5.209	-0.486	0.0	0.1
610	5.251	5.251	-0.444	0.0	0.2	830	5.207	5.207	-0.488	0.0	0.1
620	5.249	5.249	-0.446	0.0	0.1	840	5.205	5.205	-0.490	0.0	0.1
630	5.247	5.247	-0.448	0.0	0.1	850	5.203	5.203	-0.492	0.0	0.1
640	5.245	5.245	-0.450	0.0	0.1	860	5.201	5.201	-0.494	0.0	0.1
650	5.243	5.243	-0.452	0.0	0.1	870	5.199	5.199	-0.496	0.0	0.1
660	5.241	5.242	-0.454	0.0	0.1	880	5.197	5.197	-0.498	0.0	0.1
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GTA Civils Ltd						Page 77					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.006 US/MH SWMH8.7 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.500	0.0	0.1	1110	5.148	5.148	-0.547	0.0	0.1
900	5.193	5.193	-0.502	0.0	0.1	1120	5.146	5.146	-0.549	0.0	0.1
910	5.191	5.191	-0.504	0.0	0.1	1130	5.144	5.144	-0.551	0.0	0.1
920	5.189	5.189	-0.506	0.0	0.1	1140	5.142	5.142	-0.553	0.0	0.1
930	5.187	5.187	-0.508	0.0	0.1	1150	5.140	5.140	-0.555	0.0	0.1
940	5.184	5.184	-0.511	0.0	0.1	1160	5.137	5.137	-0.558	0.0	0.1
950	5.182	5.182	-0.513	0.0	0.1	1170	5.135	5.135	-0.560	0.0	0.1
960	5.180	5.180	-0.515	0.0	0.1	1180	5.133	5.133	-0.562	0.0	0.1
970	5.178	5.178	-0.517	0.0	0.1	1190	5.131	5.131	-0.564	0.0	0.1
980	5.176	5.176	-0.519	0.0	0.1	1200	5.128	5.128	-0.567	0.0	0.1
990	5.174	5.174	-0.521	0.0	0.1	1210	5.126	5.126	-0.569	0.0	0.1
1000	5.172	5.172	-0.523	0.0	0.1	1220	5.124	5.124	-0.571	0.0	0.1
1010	5.170	5.170	-0.525	0.0	0.1	1230	5.122	5.122	-0.573	0.0	0.1
1020	5.168	5.168	-0.527	0.0	0.1	1240	5.119	5.119	-0.576	0.0	0.1
1030	5.165	5.165	-0.530	0.0	0.1	1250	5.117	5.117	-0.578	0.0	0.1
1040	5.163	5.163	-0.532	0.0	0.1	1260	5.115	5.115	-0.580	0.0	0.1
1050	5.161	5.161	-0.534	0.0	0.1	1270	5.113	5.113	-0.582	0.0	0.1
1060	5.159	5.159	-0.536	0.0	0.1	1280	5.111	5.111	-0.584	0.0	0.1
1070	5.157	5.157	-0.538	0.0	0.1	1290	5.108	5.108	-0.587	0.0	0.1
1080	5.155	5.155	-0.540	0.0	0.1	1300	5.106	5.106	-0.589	0.0	0.1
1090	5.152	5.153	-0.543	0.0	0.1	1310	5.104	5.104	-0.591	0.0	0.1
1100	5.150	5.150	-0.545	0.0	0.1	1320	5.102	5.102	-0.593	0.0	0.1
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GTA Civils Ltd						Page 78					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.099	5.099	-0.596	0.0	0.1	1550	5.048	5.048	-0.647	0.0	0.1
1340	5.097	5.097	-0.598	0.0	0.1	1560	5.046	5.046	-0.649	0.0	0.0
1350	5.095	5.095	-0.600	0.0	0.1	1570	5.043	5.043	-0.652	0.0	0.0
1360	5.092	5.092	-0.603	0.0	0.1	1580	5.041	5.041	-0.654	0.0	0.0
1370	5.090	5.090	-0.605	0.0	0.1	1590	5.038	5.038	-0.657	0.0	0.0
1380	5.088	5.088	-0.607	0.0	0.1	1600	5.036	5.036	-0.659	0.0	0.0
1390	5.086	5.086	-0.609	0.0	0.1	1610	5.034	5.034	-0.661	0.0	0.0
1400	5.083	5.083	-0.612	0.0	0.1	1620	5.031	5.031	-0.664	0.0	0.0
1410	5.081	5.081	-0.614	0.0	0.1	1630	5.029	5.029	-0.666	0.0	0.0
1420	5.079	5.079	-0.616	0.0	0.1	1640	5.026	5.026	-0.669	0.0	0.0
1430	5.076	5.076	-0.619	0.0	0.1	1650	5.024	5.024	-0.671	0.0	0.0
1440	5.074	5.074	-0.621	0.0	0.1	1660	5.021	5.021	-0.674	0.0	0.0
1450	5.072	5.072	-0.623	0.0	0.1	1670	5.019	5.019	-0.676	0.0	0.0
1460	5.069	5.069	-0.626	0.0	0.1	1680	5.017	5.017	-0.678	0.0	0.0
1470	5.067	5.067	-0.628	0.0	0.1	1690	5.014	5.014	-0.681	0.0	0.0
1480	5.065	5.065	-0.630	0.0	0.1	1700	5.012	5.012	-0.683	0.0	0.0
1490	5.062	5.062	-0.633	0.0	0.1	1710	5.009	5.009	-0.686	0.0	0.0
1500	5.060	5.060	-0.635	0.0	0.1	1720	5.006	5.006	-0.689	0.0	0.0
1510	5.058	5.058	-0.637	0.0	0.1	1730	5.004	5.004	-0.691	0.0	0.0
1520	5.055	5.055	-0.640	0.0	0.1	1740	5.001	5.002	-0.694	0.0	0.0
1530	5.053	5.053	-0.642	0.0	0.1	1750	4.999	4.999	-0.696	0.0	0.0
1540	5.051	5.051	-0.644	0.0	0.1	1760	4.996	4.996	-0.699	0.0	0.0
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GTA Civils Ltd		Page 79
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.006 US/MH SWMH8.7 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.701	0.0	0.0	1890	4.963	4.963	-0.732	0.0	0.0
1780	4.991	4.991	-0.704	0.0	0.0	1900	4.961	4.961	-0.734	0.0	0.0
1790	4.989	4.989	-0.706	0.0	0.0	1910	4.958	4.958	-0.737	0.0	0.0
1800	4.986	4.986	-0.709	0.0	0.0	1920	4.956	4.956	-0.739	0.0	0.0
1810	4.984	4.984	-0.711	0.0	0.0	1930	4.953	4.953	-0.742	0.0	0.0
1820	4.981	4.981	-0.714	0.0	0.0	1940	4.950	4.950	-0.745	0.0	0.0
1830	4.979	4.979	-0.716	0.0	0.0	1950	4.948	4.948	-0.747	0.0	0.0
1840	4.976	4.976	-0.719	0.0	0.0	1960	4.946	4.945	-0.749	0.0	0.0
1850	4.974	4.974	-0.721	0.0	0.0	1970	4.945	4.942	-0.750	0.0	0.0
1860	4.971	4.971	-0.724	0.0	0.0	1980	4.945	4.940	-0.750	0.0	0.0
1870	4.968	4.968	-0.727	0.0	0.0	1990	4.945	4.937	-0.750	0.0	0.0
1880	4.966	4.966	-0.729	0.0	0.0	2000	4.945	4.934	-0.750	0.0	0.0

GTA Civils Ltd						Page 81					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 9.000 US/MH SWMH9.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.510	5.257	-0.290	0.0	0.6	670	5.500	5.239	-0.300	0.0	0.0
460	5.508	5.255	-0.292	0.0	0.5	680	5.500	5.237	-0.300	0.0	0.0
470	5.508	5.253	-0.292	0.0	0.5	690	5.500	5.235	-0.300	0.0	0.0
480	5.507	5.253	-0.293	0.0	0.4	700	5.500	5.233	-0.300	0.0	0.0
490	5.507	5.253	-0.293	0.0	0.4	710	5.500	5.231	-0.300	0.0	0.0
500	5.507	5.253	-0.293	0.0	0.4	720	5.500	5.230	-0.300	0.0	0.0
510	5.506	5.254	-0.294	0.0	0.4	730	5.500	5.227	-0.300	0.0	0.0
520	5.506	5.256	-0.294	0.0	0.4	740	5.500	5.226	-0.300	0.0	0.0
530	5.506	5.257	-0.294	0.0	0.4	750	5.500	5.223	-0.300	0.0	0.0
540	5.506	5.259	-0.294	0.0	0.4	760	5.500	5.221	-0.300	0.0	0.0
550	5.506	5.261	-0.294	0.0	0.4	770	5.500	5.219	-0.300	0.0	0.0
560	5.506	5.261	-0.294	0.0	0.4	780	5.500	5.217	-0.300	0.0	0.0
570	5.505	5.262	-0.295	0.0	0.3	790	5.500	5.215	-0.300	0.0	0.0
580	5.504	5.260	-0.296	0.0	0.3	800	5.500	5.213	-0.300	0.0	0.0
590	5.503	5.258	-0.297	0.0	0.2	810	5.500	5.211	-0.300	0.0	0.0
600	5.501	5.254	-0.299	0.0	0.1	820	5.500	5.209	-0.300	0.0	0.0
610	5.500	5.251	-0.300	0.0	0.0	830	5.500	5.207	-0.300	0.0	0.0
620	5.500	5.249	-0.300	0.0	0.0	840	5.500	5.205	-0.300	0.0	0.0
630	5.500	5.247	-0.300	0.0	0.0	850	5.500	5.203	-0.300	0.0	0.0
640	5.500	5.245	-0.300	0.0	0.0	860	5.500	5.201	-0.300	0.0	0.0
650	5.500	5.243	-0.300	0.0	0.0	870	5.500	5.199	-0.300	0.0	0.0
660	5.500	5.242	-0.300	0.0	0.0	880	5.500	5.197	-0.300	0.0	0.0
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GTA Civils Ltd						Page 82					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 9.000 US/MH SWMH9.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.500	5.195	-0.300	0.0	0.0	1110	5.500	5.148	-0.300	0.0	0.0
900	5.500	5.193	-0.300	0.0	0.0	1120	5.500	5.146	-0.300	0.0	0.0
910	5.500	5.191	-0.300	0.0	0.0	1130	5.500	5.144	-0.300	0.0	0.0
920	5.500	5.189	-0.300	0.0	0.0	1140	5.500	5.142	-0.300	0.0	0.0
930	5.500	5.187	-0.300	0.0	0.0	1150	5.500	5.140	-0.300	0.0	0.0
940	5.500	5.184	-0.300	0.0	0.0	1160	5.500	5.137	-0.300	0.0	0.0
950	5.500	5.182	-0.300	0.0	0.0	1170	5.500	5.135	-0.300	0.0	0.0
960	5.500	5.180	-0.300	0.0	0.0	1180	5.500	5.133	-0.300	0.0	0.0
970	5.500	5.178	-0.300	0.0	0.0	1190	5.500	5.131	-0.300	0.0	0.0
980	5.500	5.176	-0.300	0.0	0.0	1200	5.500	5.128	-0.300	0.0	0.0
990	5.500	5.174	-0.300	0.0	0.0	1210	5.500	5.126	-0.300	0.0	0.0
1000	5.500	5.172	-0.300	0.0	0.0	1220	5.500	5.124	-0.300	0.0	0.0
1010	5.500	5.170	-0.300	0.0	0.0	1230	5.500	5.122	-0.300	0.0	0.0
1020	5.500	5.168	-0.300	0.0	0.0	1240	5.500	5.119	-0.300	0.0	0.0
1030	5.500	5.165	-0.300	0.0	0.0	1250	5.500	5.117	-0.300	0.0	0.0
1040	5.500	5.163	-0.300	0.0	0.0	1260	5.500	5.115	-0.300	0.0	0.0
1050	5.500	5.161	-0.300	0.0	0.0	1270	5.500	5.113	-0.300	0.0	0.0
1060	5.500	5.159	-0.300	0.0	0.0	1280	5.500	5.111	-0.300	0.0	0.0
1070	5.500	5.157	-0.300	0.0	0.0	1290	5.500	5.108	-0.300	0.0	0.0
1080	5.500	5.155	-0.300	0.0	0.0	1300	5.500	5.106	-0.300	0.0	0.0
1090	5.500	5.153	-0.300	0.0	0.0	1310	5.500	5.104	-0.300	0.0	0.0
1100	5.500	5.150	-0.300	0.0	0.0	1320	5.500	5.102	-0.300	0.0	0.0
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GTA Civils Ltd		Page 84
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 9.000 US/MH SWMH9.1 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.500	4.994	-0.300	0.0	0.0	1890	5.500	4.963	-0.300	0.0	0.0
1780	5.500	4.991	-0.300	0.0	0.0	1900	5.500	4.961	-0.300	0.0	0.0
1790	5.500	4.989	-0.300	0.0	0.0	1910	5.500	4.958	-0.300	0.0	0.0
1800	5.500	4.986	-0.300	0.0	0.0	1920	5.500	4.956	-0.300	0.0	0.0
1810	5.500	4.984	-0.300	0.0	0.0	1930	5.500	4.953	-0.300	0.0	0.0
1820	5.500	4.981	-0.300	0.0	0.0	1940	5.500	4.950	-0.300	0.0	0.0
1830	5.500	4.979	-0.300	0.0	0.0	1950	5.500	4.948	-0.300	0.0	0.0
1840	5.500	4.976	-0.300	0.0	0.0	1960	5.500	4.945	-0.300	0.0	0.0
1850	5.500	4.974	-0.300	0.0	0.0	1970	5.500	4.942	-0.300	0.0	0.0
1860	5.500	4.971	-0.300	0.0	0.0	1980	5.500	4.940	-0.300	0.0	0.0
1870	5.500	4.968	-0.300	0.0	0.0	1990	5.500	4.937	-0.300	0.0	0.0
1880	5.500	4.966	-0.300	0.0	0.0	2000	5.500	4.934	-0.300	0.0	0.0

GTA Civils Ltd						Page 85					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.007 US/MH SWMH8.8 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.939	4.918	-0.741	0.0	0.2	230	5.067	5.055	-0.613	0.0	8.7
20	4.956	4.937	-0.724	0.0	0.7	240	5.076	5.064	-0.604	0.0	9.6
30	4.972	4.955	-0.708	0.0	1.3	250	5.085	5.073	-0.595	0.0	10.6
40	4.984	4.969	-0.696	0.0	1.8	260	5.093	5.082	-0.587	0.0	11.6
50	4.992	4.976	-0.688	0.0	2.2	270	5.102	5.092	-0.578	0.0	12.4
60	4.996	4.980	-0.684	0.0	2.4	280	5.110	5.101	-0.570	0.0	13.2
70	4.998	4.982	-0.682	0.0	2.5	290	5.120	5.111	-0.560	0.0	13.8
80	4.998	4.982	-0.682	0.0	2.6	300	5.131	5.124	-0.549	0.0	14.2
90	4.998	4.982	-0.682	0.0	2.6	310	5.147	5.142	-0.533	0.0	14.1
100	4.998	4.982	-0.682	0.0	2.6	320	5.165	5.161	-0.515	0.0	13.6
110	4.999	4.982	-0.681	0.0	2.6	330	5.184	5.182	-0.496	0.0	13.0
120	5.000	4.984	-0.680	0.0	2.7	340	5.203	5.202	-0.477	0.0	12.2
130	5.003	4.986	-0.677	0.0	2.8	350	5.221	5.220	-0.459	0.0	11.4
140	5.006	4.988	-0.674	0.0	3.0	360	5.238	5.237	-0.442	0.0	10.6
150	5.008	4.991	-0.672	0.0	3.3	370	5.250	5.249	-0.430	0.0	9.9
160	5.012	4.995	-0.668	0.0	3.6	380	5.258	5.257	-0.422	0.0	9.0
170	5.017	5.001	-0.663	0.0	4.1	390	5.263	5.262	-0.417	0.0	8.3
180	5.023	5.007	-0.657	0.0	4.7	400	5.265	5.264	-0.415	0.0	7.5
190	5.031	5.016	-0.649	0.0	5.4	410	5.266	5.265	-0.414	0.0	6.7
200	5.040	5.026	-0.640	0.0	6.1	420	5.265	5.264	-0.415	0.0	6.0
210	5.048	5.035	-0.632	0.0	6.9	430	5.263	5.262	-0.417	0.0	5.3
220	5.058	5.045	-0.622	0.0	7.7	440	5.260	5.260	-0.420	0.0	4.7
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GTA Civils Ltd						Page 86					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.007 US/MH SWMH8.8 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.257	5.257	-0.423	0.0	4.2	670	5.239	5.239	-0.441	0.0	0.1
460	5.255	5.255	-0.425	0.0	3.7	680	5.237	5.238	-0.443	0.0	0.1
470	5.253	5.253	-0.427	0.0	3.3	690	5.235	5.236	-0.445	0.0	0.1
480	5.253	5.252	-0.427	0.0	3.0	700	5.233	5.234	-0.447	0.0	0.1
490	5.253	5.252	-0.427	0.0	2.8	710	5.231	5.232	-0.449	0.0	0.1
500	5.253	5.253	-0.427	0.0	2.6	720	5.230	5.230	-0.450	0.0	0.1
510	5.254	5.254	-0.426	0.0	2.6	730	5.227	5.227	-0.453	0.0	0.1
520	5.256	5.256	-0.424	0.0	2.5	740	5.226	5.226	-0.454	0.0	0.1
530	5.257	5.257	-0.423	0.0	2.5	750	5.223	5.223	-0.457	0.0	0.1
540	5.259	5.259	-0.421	0.0	2.5	760	5.221	5.221	-0.459	0.0	0.1
550	5.261	5.261	-0.419	0.0	2.5	770	5.219	5.219	-0.461	0.0	0.1
560	5.261	5.261	-0.419	0.0	2.4	780	5.217	5.217	-0.463	0.0	0.1
570	5.262	5.262	-0.418	0.0	2.3	790	5.215	5.215	-0.465	0.0	0.1
580	5.260	5.260	-0.420	0.0	2.0	800	5.213	5.213	-0.467	0.0	0.1
590	5.258	5.258	-0.422	0.0	1.5	810	5.211	5.211	-0.469	0.0	0.1
600	5.254	5.254	-0.426	0.0	0.8	820	5.209	5.209	-0.471	0.0	0.1
610	5.251	5.251	-0.429	0.0	0.3	830	5.207	5.207	-0.473	0.0	0.1
620	5.249	5.249	-0.431	0.0	0.1	840	5.205	5.205	-0.475	0.0	0.1
630	5.247	5.247	-0.433	0.0	0.1	850	5.203	5.203	-0.477	0.0	0.1
640	5.245	5.245	-0.435	0.0	0.1	860	5.201	5.201	-0.479	0.0	0.1
650	5.243	5.243	-0.437	0.0	0.1	870	5.199	5.199	-0.481	0.0	0.1
660	5.242	5.242	-0.438	0.0	0.1	880	5.197	5.197	-0.483	0.0	0.1
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GTA Civils Ltd						Page 87					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.007 US/MH SWMH8.8 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.485	0.0	0.1	1110	5.148	5.148	-0.532	0.0	0.1
900	5.193	5.193	-0.487	0.0	0.1	1120	5.146	5.146	-0.534	0.0	0.1
910	5.191	5.191	-0.489	0.0	0.1	1130	5.144	5.144	-0.536	0.0	0.1
920	5.189	5.189	-0.491	0.0	0.1	1140	5.142	5.142	-0.538	0.0	0.1
930	5.187	5.187	-0.493	0.0	0.1	1150	5.140	5.140	-0.540	0.0	0.1
940	5.184	5.184	-0.496	0.0	0.1	1160	5.137	5.138	-0.543	0.0	0.1
950	5.182	5.182	-0.498	0.0	0.1	1170	5.135	5.135	-0.545	0.0	0.1
960	5.180	5.180	-0.500	0.0	0.1	1180	5.133	5.133	-0.547	0.0	0.1
970	5.178	5.178	-0.502	0.0	0.1	1190	5.131	5.131	-0.549	0.0	0.1
980	5.176	5.176	-0.504	0.0	0.1	1200	5.128	5.129	-0.552	0.0	0.1
990	5.174	5.174	-0.506	0.0	0.1	1210	5.126	5.126	-0.554	0.0	0.1
1000	5.172	5.172	-0.508	0.0	0.1	1220	5.124	5.124	-0.556	0.0	0.1
1010	5.170	5.170	-0.510	0.0	0.1	1230	5.122	5.122	-0.558	0.0	0.1
1020	5.168	5.168	-0.512	0.0	0.1	1240	5.119	5.120	-0.561	0.0	0.1
1030	5.165	5.165	-0.515	0.0	0.1	1250	5.117	5.117	-0.563	0.0	0.1
1040	5.163	5.163	-0.517	0.0	0.1	1260	5.115	5.115	-0.565	0.0	0.1
1050	5.161	5.161	-0.519	0.0	0.1	1270	5.113	5.113	-0.567	0.0	0.1
1060	5.159	5.159	-0.521	0.0	0.1	1280	5.111	5.111	-0.569	0.0	0.1
1070	5.157	5.157	-0.523	0.0	0.1	1290	5.108	5.108	-0.572	0.0	0.1
1080	5.155	5.155	-0.525	0.0	0.1	1300	5.106	5.106	-0.574	0.0	0.1
1090	5.153	5.153	-0.527	0.0	0.1	1310	5.104	5.104	-0.576	0.0	0.1
1100	5.150	5.150	-0.530	0.0	0.1	1320	5.102	5.102	-0.578	0.0	0.1
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GTA Civils Ltd						Page 88					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.007 US/MH SWMH8.8 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.099	5.099	-0.581	0.0	0.1	1550	5.048	5.048	-0.632	0.0	0.1
1340	5.097	5.097	-0.583	0.0	0.1	1560	5.046	5.046	-0.634	0.0	0.1
1350	5.095	5.095	-0.585	0.0	0.1	1570	5.043	5.043	-0.637	0.0	0.1
1360	5.092	5.092	-0.588	0.0	0.1	1580	5.041	5.041	-0.639	0.0	0.1
1370	5.090	5.090	-0.590	0.0	0.1	1590	5.038	5.039	-0.642	0.0	0.1
1380	5.088	5.088	-0.592	0.0	0.1	1600	5.036	5.036	-0.644	0.0	0.1
1390	5.086	5.086	-0.594	0.0	0.1	1610	5.034	5.034	-0.646	0.0	0.1
1400	5.083	5.083	-0.597	0.0	0.1	1620	5.031	5.031	-0.649	0.0	0.1
1410	5.081	5.081	-0.599	0.0	0.1	1630	5.029	5.029	-0.651	0.0	0.1
1420	5.079	5.079	-0.601	0.0	0.1	1640	5.026	5.026	-0.654	0.0	0.0
1430	5.076	5.076	-0.604	0.0	0.1	1650	5.024	5.024	-0.656	0.0	0.0
1440	5.074	5.074	-0.606	0.0	0.1	1660	5.021	5.021	-0.659	0.0	0.0
1450	5.072	5.072	-0.608	0.0	0.1	1670	5.019	5.019	-0.661	0.0	0.0
1460	5.069	5.069	-0.611	0.0	0.1	1680	5.017	5.017	-0.663	0.0	0.0
1470	5.067	5.067	-0.613	0.0	0.1	1690	5.014	5.014	-0.666	0.0	0.0
1480	5.065	5.065	-0.615	0.0	0.1	1700	5.012	5.012	-0.668	0.0	0.0
1490	5.062	5.062	-0.618	0.0	0.1	1710	5.009	5.009	-0.671	0.0	0.0
1500	5.060	5.060	-0.620	0.0	0.1	1720	5.006	5.006	-0.674	0.0	0.0
1510	5.058	5.058	-0.622	0.0	0.1	1730	5.004	5.004	-0.676	0.0	0.0
1520	5.055	5.055	-0.625	0.0	0.1	1740	5.002	5.002	-0.678	0.0	0.0
1530	5.053	5.053	-0.627	0.0	0.1	1750	4.999	4.999	-0.681	0.0	0.0
1540	5.051	5.051	-0.629	0.0	0.1	1760	4.996	4.996	-0.684	0.0	0.0
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GTA Civils Ltd		Page 89
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.007 US/MH SWMH8.8 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.686	0.0	0.0	1890	4.963	4.963	-0.717	0.0	0.0
1780	4.991	4.991	-0.689	0.0	0.0	1900	4.961	4.961	-0.719	0.0	0.0
1790	4.989	4.989	-0.691	0.0	0.0	1910	4.958	4.958	-0.722	0.0	0.0
1800	4.986	4.986	-0.694	0.0	0.0	1920	4.956	4.956	-0.724	0.0	0.0
1810	4.984	4.984	-0.696	0.0	0.0	1930	4.953	4.953	-0.727	0.0	0.0
1820	4.981	4.981	-0.699	0.0	0.0	1940	4.950	4.950	-0.730	0.0	0.0
1830	4.979	4.979	-0.701	0.0	0.0	1950	4.948	4.948	-0.732	0.0	0.0
1840	4.976	4.976	-0.704	0.0	0.0	1960	4.945	4.945	-0.735	0.0	0.0
1850	4.974	4.974	-0.706	0.0	0.0	1970	4.942	4.942	-0.738	0.0	0.0
1860	4.971	4.971	-0.709	0.0	0.0	1980	4.940	4.940	-0.740	0.0	0.0
1870	4.968	4.968	-0.712	0.0	0.0	1990	4.937	4.937	-0.743	0.0	0.0
1880	4.966	4.966	-0.714	0.0	0.0	2000	4.934	4.934	-0.746	0.0	0.0

GTA Civils Ltd						Page 91					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.008 US/MH SWMH8.9 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.257	5.257	-0.403	0.0	4.5	670	5.239	5.239	-0.421	0.0	0.1
460	5.255	5.254	-0.405	0.0	4.0	680	5.238	5.238	-0.422	0.0	0.1
470	5.253	5.253	-0.407	0.0	3.5	690	5.236	5.236	-0.424	0.0	0.1
480	5.252	5.252	-0.408	0.0	3.2	700	5.234	5.234	-0.426	0.0	0.1
490	5.252	5.252	-0.408	0.0	2.9	710	5.232	5.232	-0.428	0.0	0.1
500	5.253	5.253	-0.407	0.0	2.8	720	5.230	5.230	-0.430	0.0	0.1
510	5.254	5.254	-0.406	0.0	2.7	730	5.227	5.228	-0.433	0.0	0.1
520	5.256	5.256	-0.404	0.0	2.6	740	5.226	5.226	-0.434	0.0	0.1
530	5.257	5.257	-0.403	0.0	2.6	750	5.223	5.223	-0.437	0.0	0.1
540	5.259	5.259	-0.401	0.0	2.6	760	5.221	5.222	-0.439	0.0	0.1
550	5.261	5.260	-0.399	0.0	2.6	770	5.219	5.219	-0.441	0.0	0.1
560	5.261	5.261	-0.399	0.0	2.5	780	5.217	5.217	-0.443	0.0	0.1
570	5.262	5.262	-0.398	0.0	2.4	790	5.215	5.215	-0.445	0.0	0.1
580	5.260	5.260	-0.400	0.0	2.1	800	5.213	5.213	-0.447	0.0	0.1
590	5.258	5.258	-0.402	0.0	1.6	810	5.211	5.211	-0.449	0.0	0.1
600	5.254	5.254	-0.406	0.0	0.9	820	5.209	5.209	-0.451	0.0	0.1
610	5.251	5.251	-0.409	0.0	0.3	830	5.207	5.207	-0.453	0.0	0.1
620	5.249	5.249	-0.411	0.0	0.1	840	5.205	5.205	-0.455	0.0	0.1
630	5.247	5.247	-0.413	0.0	0.1	850	5.203	5.203	-0.457	0.0	0.1
640	5.245	5.245	-0.415	0.0	0.1	860	5.201	5.201	-0.459	0.0	0.1
650	5.243	5.243	-0.417	0.0	0.1	870	5.199	5.199	-0.461	0.0	0.1
660	5.242	5.242	-0.418	0.0	0.1	880	5.197	5.197	-0.463	0.0	0.1
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GTA Civils Ltd						Page 92					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.008 US/MH SWMH8.9 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.465	0.0	0.1	1110	5.148	5.148	-0.512	0.0	0.1
900	5.193	5.193	-0.467	0.0	0.1	1120	5.146	5.146	-0.514	0.0	0.1
910	5.191	5.191	-0.469	0.0	0.1	1130	5.144	5.144	-0.516	0.0	0.1
920	5.189	5.189	-0.471	0.0	0.1	1140	5.142	5.142	-0.518	0.0	0.1
930	5.187	5.187	-0.473	0.0	0.1	1150	5.140	5.140	-0.520	0.0	0.1
940	5.184	5.185	-0.476	0.0	0.1	1160	5.138	5.138	-0.522	0.0	0.1
950	5.182	5.182	-0.478	0.0	0.1	1170	5.135	5.135	-0.525	0.0	0.1
960	5.180	5.180	-0.480	0.0	0.1	1180	5.133	5.133	-0.527	0.0	0.1
970	5.178	5.178	-0.482	0.0	0.1	1190	5.131	5.131	-0.529	0.0	0.1
980	5.176	5.176	-0.484	0.0	0.1	1200	5.129	5.129	-0.531	0.0	0.1
990	5.174	5.174	-0.486	0.0	0.1	1210	5.126	5.126	-0.534	0.0	0.1
1000	5.172	5.172	-0.488	0.0	0.1	1220	5.124	5.124	-0.536	0.0	0.1
1010	5.170	5.170	-0.490	0.0	0.1	1230	5.122	5.122	-0.538	0.0	0.1
1020	5.168	5.168	-0.492	0.0	0.1	1240	5.120	5.120	-0.540	0.0	0.1
1030	5.165	5.165	-0.495	0.0	0.1	1250	5.117	5.117	-0.543	0.0	0.1
1040	5.163	5.163	-0.497	0.0	0.1	1260	5.115	5.115	-0.545	0.0	0.1
1050	5.161	5.161	-0.499	0.0	0.1	1270	5.113	5.113	-0.547	0.0	0.1
1060	5.159	5.159	-0.501	0.0	0.1	1280	5.111	5.111	-0.549	0.0	0.1
1070	5.157	5.157	-0.503	0.0	0.1	1290	5.108	5.109	-0.552	0.0	0.1
1080	5.155	5.155	-0.505	0.0	0.1	1300	5.106	5.106	-0.554	0.0	0.1
1090	5.153	5.153	-0.507	0.0	0.1	1310	5.104	5.104	-0.556	0.0	0.1
1100	5.150	5.151	-0.510	0.0	0.1	1320	5.102	5.102	-0.558	0.0	0.1
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GTA Civils Ltd						Page 93					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.008 US/MH SWMH8.9 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.099	5.099	-0.561	0.0	0.1	1550	5.048	5.048	-0.612	0.0	0.1
1340	5.097	5.097	-0.563	0.0	0.1	1560	5.046	5.046	-0.614	0.0	0.1
1350	5.095	5.095	-0.565	0.0	0.1	1570	5.043	5.043	-0.617	0.0	0.1
1360	5.092	5.092	-0.568	0.0	0.1	1580	5.041	5.041	-0.619	0.0	0.1
1370	5.090	5.090	-0.570	0.0	0.1	1590	5.039	5.039	-0.621	0.0	0.1
1380	5.088	5.088	-0.572	0.0	0.1	1600	5.036	5.036	-0.624	0.0	0.1
1390	5.086	5.086	-0.574	0.0	0.1	1610	5.034	5.034	-0.626	0.0	0.1
1400	5.083	5.083	-0.577	0.0	0.1	1620	5.031	5.031	-0.629	0.0	0.1
1410	5.081	5.081	-0.579	0.0	0.1	1630	5.029	5.029	-0.631	0.0	0.1
1420	5.079	5.079	-0.581	0.0	0.1	1640	5.026	5.026	-0.634	0.0	0.1
1430	5.076	5.076	-0.584	0.0	0.1	1650	5.024	5.024	-0.636	0.0	0.1
1440	5.074	5.074	-0.586	0.0	0.1	1660	5.021	5.021	-0.639	0.0	0.1
1450	5.072	5.072	-0.588	0.0	0.1	1670	5.019	5.019	-0.641	0.0	0.1
1460	5.069	5.069	-0.591	0.0	0.1	1680	5.017	5.017	-0.643	0.0	0.1
1470	5.067	5.067	-0.593	0.0	0.1	1690	5.014	5.014	-0.646	0.0	0.1
1480	5.065	5.065	-0.595	0.0	0.1	1700	5.012	5.012	-0.648	0.0	0.1
1490	5.062	5.062	-0.598	0.0	0.1	1710	5.009	5.009	-0.651	0.0	0.1
1500	5.060	5.060	-0.600	0.0	0.1	1720	5.006	5.007	-0.654	0.0	0.1
1510	5.058	5.058	-0.602	0.0	0.1	1730	5.004	5.004	-0.656	0.0	0.1
1520	5.055	5.055	-0.605	0.0	0.1	1740	5.002	5.002	-0.658	0.0	0.1
1530	5.053	5.053	-0.607	0.0	0.1	1750	4.999	4.999	-0.661	0.0	0.1
1540	5.051	5.051	-0.609	0.0	0.1	1760	4.996	4.997	-0.664	0.0	0.1
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GTA Civils Ltd		Page 94
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.008 US/MH SWMH8.9 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.666	0.0	0.1	1890	4.963	4.963	-0.697	0.0	0.0
1780	4.991	4.991	-0.669	0.0	0.1	1900	4.961	4.961	-0.699	0.0	0.0
1790	4.989	4.989	-0.671	0.0	0.1	1910	4.958	4.958	-0.702	0.0	0.0
1800	4.986	4.986	-0.674	0.0	0.1	1920	4.956	4.956	-0.704	0.0	0.0
1810	4.984	4.984	-0.676	0.0	0.1	1930	4.953	4.953	-0.707	0.0	0.0
1820	4.981	4.981	-0.679	0.0	0.1	1940	4.950	4.950	-0.710	0.0	0.0
1830	4.979	4.979	-0.681	0.0	0.1	1950	4.948	4.948	-0.712	0.0	0.0
1840	4.976	4.976	-0.684	0.0	0.1	1960	4.945	4.945	-0.715	0.0	0.0
1850	4.974	4.974	-0.686	0.0	0.1	1970	4.942	4.942	-0.718	0.0	0.0
1860	4.971	4.971	-0.689	0.0	0.1	1980	4.940	4.940	-0.720	0.0	0.0
1870	4.968	4.968	-0.692	0.0	0.0	1990	4.937	4.937	-0.723	0.0	0.0
1880	4.966	4.966	-0.694	0.0	0.0	2000	4.934	4.934	-0.726	0.0	0.0

GTA Civils Ltd						Page 95					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 10.000 US/MH SWMH10.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	5.541	5.192	-0.299	0.0	0.0	230	5.566	5.240	-0.274	0.0	1.1
20	5.543	5.197	-0.297	0.0	0.1	240	5.569	5.245	-0.271	0.0	1.2
30	5.545	5.200	-0.295	0.0	0.2	250	5.571	5.250	-0.269	0.0	1.3
40	5.546	5.202	-0.294	0.0	0.3	260	5.571	5.252	-0.269	0.0	1.4
50	5.547	5.203	-0.293	0.0	0.3	270	5.572	5.254	-0.268	0.0	1.5
60	5.547	5.204	-0.293	0.0	0.3	280	5.573	5.255	-0.267	0.0	1.6
70	5.547	5.204	-0.293	0.0	0.3	290	5.573	5.256	-0.267	0.0	1.7
80	5.547	5.205	-0.293	0.0	0.3	300	5.574	5.257	-0.266	0.0	1.7
90	5.547	5.204	-0.293	0.0	0.3	310	5.574	5.257	-0.266	0.0	1.7
100	5.547	5.205	-0.293	0.0	0.3	320	5.573	5.257	-0.267	0.0	1.7
110	5.548	5.205	-0.292	0.0	0.3	330	5.573	5.258	-0.267	0.0	1.6
120	5.548	5.205	-0.292	0.0	0.3	340	5.572	5.258	-0.268	0.0	1.5
130	5.548	5.206	-0.292	0.0	0.3	350	5.571	5.260	-0.269	0.0	1.4
140	5.549	5.207	-0.291	0.0	0.4	360	5.571	5.263	-0.269	0.0	1.3
150	5.550	5.209	-0.290	0.0	0.4	370	5.569	5.266	-0.271	0.0	1.2
160	5.551	5.212	-0.289	0.0	0.5	380	5.566	5.269	-0.274	0.0	1.1
170	5.553	5.214	-0.287	0.0	0.5	390	5.564	5.271	-0.276	0.0	1.0
180	5.554	5.217	-0.286	0.0	0.6	400	5.561	5.271	-0.279	0.0	0.9
190	5.556	5.221	-0.284	0.0	0.7	410	5.559	5.270	-0.281	0.0	0.8
200	5.559	5.226	-0.281	0.0	0.8	420	5.556	5.269	-0.284	0.0	0.7
210	5.561	5.230	-0.279	0.0	0.9	430	5.554	5.266	-0.286	0.0	0.6
220	5.564	5.235	-0.276	0.0	1.0	440	5.553	5.263	-0.287	0.0	0.5
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GTA Civils Ltd						Page 96					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 10.000 US/MH SWMH10.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.551	5.260	-0.289	0.0	0.5	670	5.540	5.239	-0.300	0.0	0.0
460	5.550	5.257	-0.290	0.0	0.4	680	5.540	5.238	-0.300	0.0	0.0
470	5.549	5.256	-0.291	0.0	0.4	690	5.540	5.236	-0.300	0.0	0.0
480	5.548	5.255	-0.292	0.0	0.3	700	5.540	5.234	-0.300	0.0	0.0
490	5.548	5.255	-0.292	0.0	0.3	710	5.540	5.232	-0.300	0.0	0.0
500	5.548	5.255	-0.292	0.0	0.3	720	5.540	5.230	-0.300	0.0	0.0
510	5.547	5.256	-0.293	0.0	0.3	730	5.540	5.227	-0.300	0.0	0.0
520	5.547	5.257	-0.293	0.0	0.3	740	5.540	5.226	-0.300	0.0	0.0
530	5.547	5.259	-0.293	0.0	0.3	750	5.540	5.223	-0.300	0.0	0.0
540	5.547	5.260	-0.293	0.0	0.3	760	5.540	5.221	-0.300	0.0	0.0
550	5.547	5.262	-0.293	0.0	0.3	770	5.540	5.219	-0.300	0.0	0.0
560	5.547	5.263	-0.293	0.0	0.3	780	5.540	5.217	-0.300	0.0	0.0
570	5.546	5.263	-0.294	0.0	0.3	790	5.540	5.215	-0.300	0.0	0.0
580	5.545	5.261	-0.295	0.0	0.2	800	5.540	5.213	-0.300	0.0	0.0
590	5.543	5.258	-0.297	0.0	0.1	810	5.540	5.211	-0.300	0.0	0.0
600	5.541	5.254	-0.299	0.0	0.1	820	5.540	5.209	-0.300	0.0	0.0
610	5.540	5.251	-0.300	0.0	0.0	830	5.540	5.207	-0.300	0.0	0.0
620	5.540	5.249	-0.300	0.0	0.0	840	5.540	5.205	-0.300	0.0	0.0
630	5.540	5.247	-0.300	0.0	0.0	850	5.540	5.203	-0.300	0.0	0.0
640	5.540	5.245	-0.300	0.0	0.0	860	5.540	5.201	-0.300	0.0	0.0
650	5.540	5.243	-0.300	0.0	0.0	870	5.540	5.199	-0.300	0.0	0.0
660	5.540	5.242	-0.300	0.0	0.0	880	5.540	5.197	-0.300	0.0	0.0
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GTA Civils Ltd						Page 97					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 10.000 US/MH SWMH10.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.540	5.195	-0.300	0.0	0.0	1110	5.540	5.190	-0.300	0.0	0.0
900	5.540	5.193	-0.300	0.0	0.0	1120	5.540	5.190	-0.300	0.0	0.0
910	5.540	5.191	-0.300	0.0	0.0	1130	5.540	5.190	-0.300	0.0	0.0
920	5.540	5.190	-0.300	0.0	0.0	1140	5.540	5.190	-0.300	0.0	0.0
930	5.540	5.190	-0.300	0.0	0.0	1150	5.540	5.190	-0.300	0.0	0.0
940	5.540	5.190	-0.300	0.0	0.0	1160	5.540	5.190	-0.300	0.0	0.0
950	5.540	5.190	-0.300	0.0	0.0	1170	5.540	5.190	-0.300	0.0	0.0
960	5.540	5.190	-0.300	0.0	0.0	1180	5.540	5.190	-0.300	0.0	0.0
970	5.540	5.190	-0.300	0.0	0.0	1190	5.540	5.190	-0.300	0.0	0.0
980	5.540	5.190	-0.300	0.0	0.0	1200	5.540	5.190	-0.300	0.0	0.0
990	5.540	5.190	-0.300	0.0	0.0	1210	5.540	5.190	-0.300	0.0	0.0
1000	5.540	5.190	-0.300	0.0	0.0	1220	5.540	5.190	-0.300	0.0	0.0
1010	5.540	5.190	-0.300	0.0	0.0	1230	5.540	5.190	-0.300	0.0	0.0
1020	5.540	5.190	-0.300	0.0	0.0	1240	5.540	5.190	-0.300	0.0	0.0
1030	5.540	5.190	-0.300	0.0	0.0	1250	5.540	5.190	-0.300	0.0	0.0
1040	5.540	5.190	-0.300	0.0	0.0	1260	5.540	5.190	-0.300	0.0	0.0
1050	5.540	5.190	-0.300	0.0	0.0	1270	5.540	5.190	-0.300	0.0	0.0
1060	5.540	5.190	-0.300	0.0	0.0	1280	5.540	5.190	-0.300	0.0	0.0
1070	5.540	5.190	-0.300	0.0	0.0	1290	5.540	5.190	-0.300	0.0	0.0
1080	5.540	5.190	-0.300	0.0	0.0	1300	5.540	5.190	-0.300	0.0	0.0
1090	5.540	5.190	-0.300	0.0	0.0	1310	5.540	5.190	-0.300	0.0	0.0
1100	5.540	5.190	-0.300	0.0	0.0	1320	5.540	5.190	-0.300	0.0	0.0
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GTA Civils Ltd						Page 98					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 10.000 US/MH SWMH10.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.540	5.190	-0.300	0.0	0.0	1550	5.540	5.190	-0.300	0.0	0.0
1340	5.540	5.190	-0.300	0.0	0.0	1560	5.540	5.190	-0.300	0.0	0.0
1350	5.540	5.190	-0.300	0.0	0.0	1570	5.540	5.190	-0.300	0.0	0.0
1360	5.540	5.190	-0.300	0.0	0.0	1580	5.540	5.190	-0.300	0.0	0.0
1370	5.540	5.190	-0.300	0.0	0.0	1590	5.540	5.190	-0.300	0.0	0.0
1380	5.540	5.190	-0.300	0.0	0.0	1600	5.540	5.190	-0.300	0.0	0.0
1390	5.540	5.190	-0.300	0.0	0.0	1610	5.540	5.190	-0.300	0.0	0.0
1400	5.540	5.190	-0.300	0.0	0.0	1620	5.540	5.190	-0.300	0.0	0.0
1410	5.540	5.190	-0.300	0.0	0.0	1630	5.540	5.190	-0.300	0.0	0.0
1420	5.540	5.190	-0.300	0.0	0.0	1640	5.540	5.190	-0.300	0.0	0.0
1430	5.540	5.190	-0.300	0.0	0.0	1650	5.540	5.190	-0.300	0.0	0.0
1440	5.540	5.190	-0.300	0.0	0.0	1660	5.540	5.190	-0.300	0.0	0.0
1450	5.540	5.190	-0.300	0.0	0.0	1670	5.540	5.190	-0.300	0.0	0.0
1460	5.540	5.190	-0.300	0.0	0.0	1680	5.540	5.190	-0.300	0.0	0.0
1470	5.540	5.190	-0.300	0.0	0.0	1690	5.540	5.190	-0.300	0.0	0.0
1480	5.540	5.190	-0.300	0.0	0.0	1700	5.540	5.190	-0.300	0.0	0.0
1490	5.540	5.190	-0.300	0.0	0.0	1710	5.540	5.190	-0.300	0.0	0.0
1500	5.540	5.190	-0.300	0.0	0.0	1720	5.540	5.190	-0.300	0.0	0.0
1510	5.540	5.190	-0.300	0.0	0.0	1730	5.540	5.190	-0.300	0.0	0.0
1520	5.540	5.190	-0.300	0.0	0.0	1740	5.540	5.190	-0.300	0.0	0.0
1530	5.540	5.190	-0.300	0.0	0.0	1750	5.540	5.190	-0.300	0.0	0.0
1540	5.540	5.190	-0.300	0.0	0.0	1760	5.540	5.190	-0.300	0.0	0.0
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GTA Civils Ltd		Page 99
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 10.000 US/MH SWMH10.1 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.540	5.190	-0.300	0.0	0.0	1890	5.540	5.190	-0.300	0.0	0.0
1780	5.540	5.190	-0.300	0.0	0.0	1900	5.540	5.190	-0.300	0.0	0.0
1790	5.540	5.190	-0.300	0.0	0.0	1910	5.540	5.190	-0.300	0.0	0.0
1800	5.540	5.190	-0.300	0.0	0.0	1920	5.540	5.190	-0.300	0.0	0.0
1810	5.540	5.190	-0.300	0.0	0.0	1930	5.540	5.190	-0.300	0.0	0.0
1820	5.540	5.190	-0.300	0.0	0.0	1940	5.540	5.190	-0.300	0.0	0.0
1830	5.540	5.190	-0.300	0.0	0.0	1950	5.540	5.190	-0.300	0.0	0.0
1840	5.540	5.190	-0.300	0.0	0.0	1960	5.540	5.190	-0.300	0.0	0.0
1850	5.540	5.190	-0.300	0.0	0.0	1970	5.540	5.190	-0.300	0.0	0.0
1860	5.540	5.190	-0.300	0.0	0.0	1980	5.540	5.190	-0.300	0.0	0.0
1870	5.540	5.190	-0.300	0.0	0.0	1990	5.540	5.190	-0.300	0.0	0.0
1880	5.540	5.190	-0.300	0.0	0.0	2000	5.540	5.190	-0.300	0.0	0.0

GTA Civils Ltd		Page 104
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 10.001 US/MH SWMH10.2 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.190	5.140	-0.600	0.0	0.0	1890	5.190	5.140	-0.600	0.0	0.0
1780	5.190	5.140	-0.600	0.0	0.0	1900	5.190	5.140	-0.600	0.0	0.0
1790	5.190	5.140	-0.600	0.0	0.0	1910	5.190	5.140	-0.600	0.0	0.0
1800	5.190	5.140	-0.600	0.0	0.0	1920	5.190	5.140	-0.600	0.0	0.0
1810	5.190	5.140	-0.600	0.0	0.0	1930	5.190	5.140	-0.600	0.0	0.0
1820	5.190	5.140	-0.600	0.0	0.0	1940	5.190	5.140	-0.600	0.0	0.0
1830	5.190	5.140	-0.600	0.0	0.0	1950	5.190	5.140	-0.600	0.0	0.0
1840	5.190	5.140	-0.600	0.0	0.0	1960	5.190	5.140	-0.600	0.0	0.0
1850	5.190	5.140	-0.600	0.0	0.0	1970	5.190	5.140	-0.600	0.0	0.0
1860	5.190	5.140	-0.600	0.0	0.0	1980	5.190	5.140	-0.600	0.0	0.0
1870	5.190	5.140	-0.600	0.0	0.0	1990	5.190	5.140	-0.600	0.0	0.0
1880	5.190	5.140	-0.600	0.0	0.0	2000	5.190	5.140	-0.600	0.0	0.0

GTA Civils Ltd		Page 109
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 10.002 US/MH SWMH10.3 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.140	4.994	-0.600	0.0	0.0	1890	5.140	4.963	-0.600	0.0	0.0
1780	5.140	4.991	-0.600	0.0	0.0	1900	5.140	4.961	-0.600	0.0	0.0
1790	5.140	4.989	-0.600	0.0	0.0	1910	5.140	4.958	-0.600	0.0	0.0
1800	5.140	4.986	-0.600	0.0	0.0	1920	5.140	4.956	-0.600	0.0	0.0
1810	5.140	4.984	-0.600	0.0	0.0	1930	5.140	4.953	-0.600	0.0	0.0
1820	5.140	4.981	-0.600	0.0	0.0	1940	5.140	4.950	-0.600	0.0	0.0
1830	5.140	4.979	-0.600	0.0	0.0	1950	5.140	4.948	-0.600	0.0	0.0
1840	5.140	4.976	-0.600	0.0	0.0	1960	5.140	4.945	-0.600	0.0	0.0
1850	5.140	4.974	-0.600	0.0	0.0	1970	5.140	4.942	-0.600	0.0	0.0
1860	5.140	4.971	-0.600	0.0	0.0	1980	5.140	4.940	-0.600	0.0	0.0
1870	5.140	4.968	-0.600	0.0	0.0	1990	5.140	4.937	-0.600	0.0	0.0
1880	5.140	4.966	-0.600	0.0	0.0	2000	5.140	4.934	-0.600	0.0	0.0

GTA Civils Ltd						Page 111					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.009 US/MH SWMH8.10 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.257	5.254	-0.383	0.0	7.3	670	5.239	5.240	-0.401	0.0	0.3
460	5.254	5.252	-0.386	0.0	6.4	680	5.238	5.238	-0.402	0.0	0.2
470	5.253	5.251	-0.387	0.0	5.7	690	5.236	5.236	-0.404	0.0	0.2
480	5.252	5.251	-0.388	0.0	5.1	700	5.234	5.234	-0.406	0.0	0.2
490	5.252	5.251	-0.388	0.0	4.7	710	5.232	5.232	-0.408	0.0	0.2
500	5.253	5.252	-0.387	0.0	4.4	720	5.230	5.230	-0.410	0.0	0.2
510	5.254	5.253	-0.386	0.0	4.3	730	5.228	5.228	-0.412	0.0	0.2
520	5.256	5.254	-0.384	0.0	4.2	740	5.226	5.226	-0.414	0.0	0.2
530	5.257	5.256	-0.383	0.0	4.2	750	5.223	5.224	-0.417	0.0	0.2
540	5.259	5.258	-0.381	0.0	4.2	760	5.222	5.222	-0.418	0.0	0.2
550	5.260	5.259	-0.380	0.0	4.1	770	5.219	5.219	-0.421	0.0	0.2
560	5.261	5.260	-0.379	0.0	4.0	780	5.217	5.217	-0.423	0.0	0.2
570	5.262	5.261	-0.378	0.0	3.8	790	5.215	5.216	-0.425	0.0	0.2
580	5.260	5.260	-0.380	0.0	3.4	800	5.213	5.213	-0.427	0.0	0.2
590	5.258	5.258	-0.382	0.0	2.6	810	5.211	5.211	-0.429	0.0	0.2
600	5.254	5.254	-0.386	0.0	1.6	820	5.209	5.209	-0.431	0.0	0.2
610	5.251	5.251	-0.389	0.0	0.6	830	5.207	5.207	-0.433	0.0	0.2
620	5.249	5.249	-0.391	0.0	0.3	840	5.205	5.205	-0.435	0.0	0.2
630	5.247	5.248	-0.393	0.0	0.3	850	5.203	5.203	-0.437	0.0	0.2
640	5.245	5.246	-0.395	0.0	0.3	860	5.201	5.201	-0.439	0.0	0.2
650	5.243	5.244	-0.397	0.0	0.3	870	5.199	5.199	-0.441	0.0	0.2
660	5.242	5.242	-0.398	0.0	0.3	880	5.197	5.197	-0.443	0.0	0.2
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GTA Civils Ltd						Page 113					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.009 US/MH SWMH8.10 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.099	5.099	-0.541	0.0	0.1	1550	5.048	5.048	-0.592	0.0	0.1
1340	5.097	5.097	-0.543	0.0	0.2	1560	5.046	5.046	-0.594	0.0	0.1
1350	5.095	5.095	-0.545	0.0	0.1	1570	5.043	5.044	-0.597	0.0	0.1
1360	5.092	5.093	-0.548	0.0	0.2	1580	5.041	5.041	-0.599	0.0	0.1
1370	5.090	5.090	-0.550	0.0	0.1	1590	5.039	5.039	-0.601	0.0	0.1
1380	5.088	5.088	-0.552	0.0	0.2	1600	5.036	5.036	-0.604	0.0	0.1
1390	5.086	5.086	-0.554	0.0	0.2	1610	5.034	5.034	-0.606	0.0	0.1
1400	5.083	5.083	-0.557	0.0	0.2	1620	5.031	5.031	-0.609	0.0	0.1
1410	5.081	5.081	-0.559	0.0	0.1	1630	5.029	5.029	-0.611	0.0	0.1
1420	5.079	5.079	-0.561	0.0	0.1	1640	5.026	5.026	-0.614	0.0	0.1
1430	5.076	5.076	-0.564	0.0	0.1	1650	5.024	5.024	-0.616	0.0	0.1
1440	5.074	5.074	-0.566	0.0	0.1	1660	5.021	5.021	-0.619	0.0	0.1
1450	5.072	5.072	-0.568	0.0	0.1	1670	5.019	5.019	-0.621	0.0	0.1
1460	5.069	5.069	-0.571	0.0	0.1	1680	5.017	5.017	-0.623	0.0	0.1
1470	5.067	5.067	-0.573	0.0	0.1	1690	5.014	5.014	-0.626	0.0	0.1
1480	5.065	5.065	-0.575	0.0	0.1	1700	5.012	5.012	-0.628	0.0	0.1
1490	5.062	5.062	-0.578	0.0	0.1	1710	5.009	5.009	-0.631	0.0	0.1
1500	5.060	5.060	-0.580	0.0	0.1	1720	5.007	5.007	-0.633	0.0	0.1
1510	5.058	5.058	-0.582	0.0	0.1	1730	5.004	5.004	-0.636	0.0	0.1
1520	5.055	5.055	-0.585	0.0	0.1	1740	5.002	5.002	-0.638	0.0	0.1
1530	5.053	5.053	-0.587	0.0	0.1	1750	4.999	4.999	-0.641	0.0	0.1
1540	5.051	5.051	-0.589	0.0	0.1	1760	4.997	4.997	-0.643	0.0	0.1
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GTA Civils Ltd		Page 114
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.009 US/MH SWMH8.10 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.646	0.0	0.1	1890	4.963	4.963	-0.677	0.0	0.1
1780	4.991	4.991	-0.649	0.0	0.1	1900	4.961	4.961	-0.679	0.0	0.1
1790	4.989	4.989	-0.651	0.0	0.1	1910	4.958	4.958	-0.682	0.0	0.1
1800	4.986	4.986	-0.654	0.0	0.1	1920	4.956	4.956	-0.684	0.0	0.1
1810	4.984	4.984	-0.656	0.0	0.1	1930	4.953	4.953	-0.687	0.0	0.1
1820	4.981	4.981	-0.659	0.0	0.1	1940	4.950	4.950	-0.690	0.0	0.1
1830	4.979	4.979	-0.661	0.0	0.1	1950	4.948	4.948	-0.692	0.0	0.1
1840	4.976	4.976	-0.664	0.0	0.1	1960	4.945	4.945	-0.695	0.0	0.1
1850	4.974	4.974	-0.666	0.0	0.1	1970	4.942	4.942	-0.698	0.0	0.1
1860	4.971	4.971	-0.669	0.0	0.1	1980	4.940	4.940	-0.700	0.0	0.0
1870	4.968	4.968	-0.672	0.0	0.1	1990	4.937	4.937	-0.703	0.0	0.0
1880	4.966	4.966	-0.674	0.0	0.1	2000	4.934	4.934	-0.706	0.0	0.0

GTA Civils Ltd						Page 117					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 11.000 US/MH SWMH11.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.525	0.0	0.0	1110	5.148	5.148	-0.572	0.0	0.0
900	5.193	5.193	-0.527	0.0	0.0	1120	5.146	5.146	-0.574	0.0	0.0
910	5.191	5.191	-0.529	0.0	0.0	1130	5.144	5.144	-0.576	0.0	0.0
920	5.189	5.189	-0.531	0.0	0.0	1140	5.142	5.142	-0.578	0.0	0.0
930	5.187	5.187	-0.533	0.0	0.0	1150	5.140	5.140	-0.580	0.0	0.0
940	5.185	5.185	-0.535	0.0	0.0	1160	5.137	5.137	-0.583	0.0	0.0
950	5.182	5.182	-0.538	0.0	0.0	1170	5.135	5.135	-0.585	0.0	0.0
960	5.180	5.180	-0.540	0.0	0.0	1180	5.133	5.133	-0.587	0.0	0.0
970	5.178	5.178	-0.542	0.0	0.0	1190	5.131	5.131	-0.589	0.0	0.0
980	5.176	5.176	-0.544	0.0	0.0	1200	5.129	5.129	-0.591	0.0	0.0
990	5.174	5.174	-0.546	0.0	0.0	1210	5.127	5.127	-0.593	0.0	0.0
1000	5.172	5.172	-0.548	0.0	0.0	1220	5.124	5.124	-0.596	0.0	0.0
1010	5.170	5.170	-0.550	0.0	0.0	1230	5.122	5.122	-0.598	0.0	0.0
1020	5.168	5.168	-0.552	0.0	0.0	1240	5.120	5.120	-0.600	0.0	0.0
1030	5.165	5.165	-0.555	0.0	0.0	1250	5.120	5.117	-0.600	0.0	0.0
1040	5.163	5.163	-0.557	0.0	0.0	1260	5.120	5.115	-0.600	0.0	0.0
1050	5.161	5.161	-0.559	0.0	0.0	1270	5.120	5.113	-0.600	0.0	0.0
1060	5.159	5.159	-0.561	0.0	0.0	1280	5.120	5.111	-0.600	0.0	0.0
1070	5.157	5.157	-0.563	0.0	0.0	1290	5.120	5.109	-0.600	0.0	0.0
1080	5.155	5.155	-0.565	0.0	0.0	1300	5.120	5.106	-0.600	0.0	0.0
1090	5.153	5.153	-0.567	0.0	0.0	1310	5.120	5.104	-0.600	0.0	0.0
1100	5.151	5.151	-0.569	0.0	0.0	1320	5.120	5.102	-0.600	0.0	0.0
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GTA Civils Ltd		Page 120
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 11.001 US/MH SWMH11.2 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	5.073	4.847	-0.597	0.0	0.2	230	5.130	5.016	-0.540	0.0	5.6
20	5.078	4.879	-0.592	0.0	0.7	240	5.133	5.027	-0.537	0.0	6.3
30	5.082	4.907	-0.588	0.0	1.0	250	5.136	5.038	-0.534	0.0	6.9
40	5.085	4.916	-0.585	0.0	1.3	260	5.139	5.050	-0.531	0.0	7.4
50	5.086	4.921	-0.584	0.0	1.5	270	5.143	5.062	-0.527	0.0	8.0
60	5.087	4.924	-0.583	0.0	1.6	280	5.147	5.073	-0.523	0.0	8.5
70	5.088	4.925	-0.582	0.0	1.6	290	5.150	5.087	-0.520	0.0	8.8
80	5.088	4.926	-0.582	0.0	1.6	300	5.156	5.104	-0.514	0.0	9.1
90	5.088	4.926	-0.582	0.0	1.6	310	5.162	5.122	-0.508	0.0	9.1
100	5.088	4.926	-0.582	0.0	1.6	320	5.169	5.140	-0.501	0.0	8.8
110	5.088	4.926	-0.582	0.0	1.6	330	5.180	5.162	-0.490	0.0	8.4
120	5.088	4.928	-0.582	0.0	1.7	340	5.193	5.183	-0.477	0.0	7.7
130	5.090	4.930	-0.580	0.0	1.8	350	5.208	5.203	-0.462	0.0	7.2
140	5.091	4.934	-0.579	0.0	1.9	360	5.224	5.221	-0.446	0.0	6.6
150	5.093	4.939	-0.577	0.0	2.1	370	5.236	5.234	-0.434	0.0	6.0
160	5.096	4.945	-0.574	0.0	2.4	380	5.246	5.244	-0.424	0.0	5.5
170	5.099	4.953	-0.571	0.0	2.7	390	5.253	5.251	-0.417	0.0	5.0
180	5.102	4.963	-0.568	0.0	3.1	400	5.256	5.255	-0.414	0.0	4.5
190	5.106	4.974	-0.564	0.0	3.5	410	5.258	5.257	-0.412	0.0	4.0
200	5.111	4.986	-0.559	0.0	4.0	420	5.259	5.258	-0.411	0.0	3.6
210	5.117	4.995	-0.553	0.0	4.5	430	5.258	5.257	-0.412	0.0	3.2
220	5.124	5.005	-0.546	0.0	5.0	440	5.256	5.256	-0.414	0.0	2.8

GTA Civils Ltd		Page 124
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 11.001 US/MH SWMH11.2 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.070	4.994	-0.600	0.0	0.0	1890	5.070	4.963	-0.600	0.0	0.0
1780	5.070	4.991	-0.600	0.0	0.0	1900	5.070	4.961	-0.600	0.0	0.0
1790	5.070	4.989	-0.600	0.0	0.0	1910	5.070	4.958	-0.600	0.0	0.0
1800	5.070	4.986	-0.600	0.0	0.0	1920	5.070	4.956	-0.600	0.0	0.0
1810	5.070	4.984	-0.600	0.0	0.0	1930	5.070	4.953	-0.600	0.0	0.0
1820	5.070	4.981	-0.600	0.0	0.0	1940	5.070	4.950	-0.600	0.0	0.0
1830	5.070	4.979	-0.600	0.0	0.0	1950	5.070	4.948	-0.600	0.0	0.0
1840	5.070	4.976	-0.600	0.0	0.0	1960	5.070	4.945	-0.600	0.0	0.0
1850	5.070	4.974	-0.600	0.0	0.0	1970	5.070	4.942	-0.600	0.0	0.0
1860	5.070	4.971	-0.600	0.0	0.0	1980	5.070	4.940	-0.600	0.0	0.0
1870	5.070	4.968	-0.600	0.0	0.0	1990	5.070	4.937	-0.600	0.0	0.0
1880	5.070	4.966	-0.600	0.0	0.0	2000	5.070	4.934	-0.600	0.0	0.0

GTA Civils Ltd						Page 125					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.010 US/MH SWMH8.11 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.847	4.826	-0.733	0.0	0.4	230	5.016	4.995	-0.564	0.0	20.9
20	4.879	4.855	-0.701	0.0	1.5	240	5.027	5.006	-0.553	0.0	23.2
30	4.907	4.884	-0.673	0.0	3.0	250	5.038	5.018	-0.542	0.0	25.4
40	4.916	4.895	-0.664	0.0	4.5	260	5.050	5.031	-0.530	0.0	27.7
50	4.921	4.899	-0.659	0.0	5.4	270	5.062	5.043	-0.518	0.0	29.6
60	4.924	4.902	-0.656	0.0	5.9	280	5.073	5.057	-0.507	0.0	31.5
70	4.925	4.903	-0.655	0.0	6.2	290	5.087	5.072	-0.493	0.0	32.9
80	4.926	4.904	-0.654	0.0	6.3	300	5.104	5.092	-0.476	0.0	33.5
90	4.926	4.904	-0.654	0.0	6.3	310	5.122	5.113	-0.458	0.0	33.2
100	4.926	4.904	-0.654	0.0	6.3	320	5.140	5.134	-0.440	0.0	32.0
110	4.926	4.905	-0.654	0.0	6.4	330	5.162	5.157	-0.418	0.0	29.9
120	4.928	4.906	-0.652	0.0	6.5	340	5.183	5.179	-0.397	0.0	27.8
130	4.930	4.909	-0.650	0.0	6.8	350	5.203	5.199	-0.377	0.0	25.8
140	4.934	4.912	-0.646	0.0	7.3	360	5.221	5.217	-0.359	0.0	23.9
150	4.939	4.917	-0.641	0.0	8.0	370	5.234	5.230	-0.346	0.0	22.3
160	4.945	4.923	-0.635	0.0	8.8	380	5.244	5.241	-0.336	0.0	20.7
170	4.953	4.931	-0.627	0.0	9.9	390	5.251	5.248	-0.329	0.0	19.2
180	4.963	4.940	-0.617	0.0	11.1	400	5.255	5.252	-0.325	0.0	17.6
190	4.974	4.952	-0.606	0.0	12.7	410	5.257	5.255	-0.323	0.0	16.0
200	4.986	4.963	-0.594	0.0	14.5	420	5.258	5.256	-0.322	0.0	14.4
210	4.995	4.973	-0.585	0.0	16.5	430	5.257	5.256	-0.323	0.0	13.0
220	5.005	4.984	-0.575	0.0	18.6	440	5.256	5.255	-0.324	0.0	11.7
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GTA Civils Ltd						Page 126					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.010 US/MH SWMH8.11 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.254	5.253	-0.326	0.0	10.5	670	5.240	5.240	-0.340	0.0	0.5
460	5.252	5.251	-0.328	0.0	9.3	680	5.238	5.238	-0.342	0.0	0.5
470	5.251	5.250	-0.329	0.0	8.2	690	5.236	5.236	-0.344	0.0	0.5
480	5.251	5.250	-0.329	0.0	7.4	700	5.234	5.234	-0.346	0.0	0.5
490	5.251	5.250	-0.329	0.0	6.7	710	5.232	5.232	-0.348	0.0	0.5
500	5.252	5.251	-0.328	0.0	6.3	720	5.230	5.230	-0.350	0.0	0.5
510	5.253	5.252	-0.327	0.0	6.1	730	5.228	5.228	-0.352	0.0	0.5
520	5.254	5.254	-0.326	0.0	6.0	740	5.226	5.226	-0.354	0.0	0.5
530	5.256	5.256	-0.324	0.0	5.9	750	5.224	5.224	-0.356	0.0	0.5
540	5.258	5.257	-0.322	0.0	5.9	760	5.222	5.222	-0.358	0.0	0.5
550	5.259	5.259	-0.321	0.0	5.8	770	5.219	5.220	-0.361	0.0	0.5
560	5.260	5.260	-0.320	0.0	5.7	780	5.217	5.218	-0.363	0.0	0.5
570	5.261	5.260	-0.319	0.0	5.4	790	5.216	5.216	-0.364	0.0	0.5
580	5.260	5.259	-0.320	0.0	4.8	800	5.213	5.213	-0.367	0.0	0.5
590	5.258	5.257	-0.322	0.0	3.8	810	5.211	5.211	-0.369	0.0	0.5
600	5.254	5.254	-0.326	0.0	2.4	820	5.209	5.209	-0.371	0.0	0.5
610	5.251	5.252	-0.329	0.0	1.0	830	5.207	5.207	-0.373	0.0	0.5
620	5.249	5.250	-0.331	0.0	0.5	840	5.205	5.205	-0.375	0.0	0.5
630	5.248	5.248	-0.332	0.0	0.5	850	5.203	5.203	-0.377	0.0	0.5
640	5.246	5.246	-0.334	0.0	0.5	860	5.201	5.201	-0.379	0.0	0.5
650	5.244	5.244	-0.336	0.0	0.5	870	5.199	5.199	-0.381	0.0	0.5
660	5.242	5.242	-0.338	0.0	0.5	880	5.197	5.197	-0.383	0.0	0.5
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GTA Civils Ltd						Page 127					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 8.010 US/MH SWMH8.11 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.385	0.0	0.4	1110	5.148	5.148	-0.432	0.0	0.4
900	5.193	5.193	-0.387	0.0	0.5	1120	5.146	5.146	-0.434	0.0	0.4
910	5.191	5.191	-0.389	0.0	0.5	1130	5.144	5.144	-0.436	0.0	0.4
920	5.189	5.189	-0.391	0.0	0.5	1140	5.142	5.142	-0.438	0.0	0.4
930	5.187	5.187	-0.393	0.0	0.4	1150	5.140	5.140	-0.440	0.0	0.4
940	5.185	5.185	-0.395	0.0	0.4	1160	5.138	5.138	-0.442	0.0	0.4
950	5.182	5.182	-0.398	0.0	0.4	1170	5.135	5.135	-0.445	0.0	0.4
960	5.180	5.181	-0.400	0.0	0.4	1180	5.133	5.133	-0.447	0.0	0.4
970	5.178	5.178	-0.402	0.0	0.4	1190	5.131	5.131	-0.449	0.0	0.4
980	5.176	5.176	-0.404	0.0	0.5	1200	5.129	5.129	-0.451	0.0	0.4
990	5.174	5.174	-0.406	0.0	0.4	1210	5.127	5.127	-0.453	0.0	0.4
1000	5.172	5.172	-0.408	0.0	0.4	1220	5.124	5.124	-0.456	0.0	0.4
1010	5.170	5.170	-0.410	0.0	0.4	1230	5.122	5.122	-0.458	0.0	0.4
1020	5.168	5.168	-0.412	0.0	0.4	1240	5.120	5.120	-0.460	0.0	0.4
1030	5.165	5.165	-0.415	0.0	0.4	1250	5.117	5.118	-0.463	0.0	0.3
1040	5.163	5.163	-0.417	0.0	0.4	1260	5.115	5.115	-0.465	0.0	0.3
1050	5.161	5.161	-0.419	0.0	0.4	1270	5.113	5.113	-0.467	0.0	0.3
1060	5.159	5.159	-0.421	0.0	0.4	1280	5.111	5.111	-0.469	0.0	0.3
1070	5.157	5.157	-0.423	0.0	0.4	1290	5.109	5.109	-0.471	0.0	0.3
1080	5.155	5.155	-0.425	0.0	0.4	1300	5.106	5.106	-0.474	0.0	0.4
1090	5.153	5.153	-0.427	0.0	0.4	1310	5.104	5.104	-0.476	0.0	0.3
1100	5.151	5.151	-0.429	0.0	0.4	1320	5.102	5.102	-0.478	0.0	0.3
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GTA Civils Ltd						Page 128					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.010 US/MH SWMH8.11 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.099	5.100	-0.481	0.0	0.3	1550	5.048	5.048	-0.532	0.0	0.3
1340	5.097	5.097	-0.483	0.0	0.3	1560	5.046	5.046	-0.534	0.0	0.3
1350	5.095	5.095	-0.485	0.0	0.3	1570	5.044	5.044	-0.536	0.0	0.3
1360	5.093	5.093	-0.487	0.0	0.3	1580	5.041	5.041	-0.539	0.0	0.2
1370	5.090	5.090	-0.490	0.0	0.3	1590	5.039	5.039	-0.541	0.0	0.3
1380	5.088	5.088	-0.492	0.0	0.3	1600	5.036	5.036	-0.544	0.0	0.2
1390	5.086	5.086	-0.494	0.0	0.3	1610	5.034	5.034	-0.546	0.0	0.2
1400	5.083	5.084	-0.497	0.0	0.3	1620	5.031	5.031	-0.549	0.0	0.3
1410	5.081	5.081	-0.499	0.0	0.3	1630	5.029	5.029	-0.551	0.0	0.2
1420	5.079	5.079	-0.501	0.0	0.3	1640	5.026	5.027	-0.554	0.0	0.2
1430	5.076	5.076	-0.504	0.0	0.3	1650	5.024	5.024	-0.556	0.0	0.2
1440	5.074	5.074	-0.506	0.0	0.3	1660	5.021	5.021	-0.559	0.0	0.2
1450	5.072	5.072	-0.508	0.0	0.3	1670	5.019	5.019	-0.561	0.0	0.2
1460	5.069	5.070	-0.511	0.0	0.3	1680	5.017	5.017	-0.563	0.0	0.2
1470	5.067	5.067	-0.513	0.0	0.3	1690	5.014	5.014	-0.566	0.0	0.2
1480	5.065	5.065	-0.515	0.0	0.3	1700	5.012	5.012	-0.568	0.0	0.2
1490	5.062	5.063	-0.518	0.0	0.3	1710	5.009	5.009	-0.571	0.0	0.2
1500	5.060	5.060	-0.520	0.0	0.3	1720	5.007	5.007	-0.573	0.0	0.2
1510	5.058	5.058	-0.522	0.0	0.3	1730	5.004	5.004	-0.576	0.0	0.2
1520	5.055	5.055	-0.525	0.0	0.3	1740	5.002	5.002	-0.578	0.0	0.2
1530	5.053	5.053	-0.527	0.0	0.3	1750	4.999	4.999	-0.581	0.0	0.2
1540	5.051	5.051	-0.529	0.0	0.3	1760	4.997	4.996	-0.583	0.0	0.2
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GTA Civils Ltd		Page 129
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.010 US/MH SWMH8.11 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.586	0.0	0.2	1890	4.963	4.963	-0.617	0.0	0.2
1780	4.991	4.991	-0.589	0.0	0.2	1900	4.961	4.961	-0.619	0.0	0.2
1790	4.989	4.989	-0.591	0.0	0.2	1910	4.958	4.958	-0.622	0.0	0.2
1800	4.986	4.986	-0.594	0.0	0.2	1920	4.956	4.956	-0.624	0.0	0.2
1810	4.984	4.984	-0.596	0.0	0.2	1930	4.953	4.953	-0.627	0.0	0.2
1820	4.981	4.981	-0.599	0.0	0.2	1940	4.950	4.950	-0.630	0.0	0.2
1830	4.979	4.979	-0.601	0.0	0.2	1950	4.948	4.948	-0.632	0.0	0.2
1840	4.976	4.976	-0.604	0.0	0.2	1960	4.945	4.945	-0.635	0.0	0.2
1850	4.974	4.974	-0.606	0.0	0.2	1970	4.942	4.942	-0.638	0.0	0.1
1860	4.971	4.971	-0.609	0.0	0.2	1980	4.940	4.940	-0.640	0.0	0.1
1870	4.968	4.968	-0.612	0.0	0.2	1990	4.937	4.937	-0.643	0.0	0.1
1880	4.966	4.966	-0.614	0.0	0.2	2000	4.934	4.934	-0.646	0.0	0.1

GTA Civils Ltd		Page 134
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 12.000 US/MH SWMH12.1 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.450	5.420	-0.300	0.0	0.0	1890	5.450	5.420	-0.300	0.0	0.0
1780	5.450	5.420	-0.300	0.0	0.0	1900	5.450	5.420	-0.300	0.0	0.0
1790	5.450	5.420	-0.300	0.0	0.0	1910	5.450	5.420	-0.300	0.0	0.0
1800	5.450	5.420	-0.300	0.0	0.0	1920	5.450	5.420	-0.300	0.0	0.0
1810	5.450	5.420	-0.300	0.0	0.0	1930	5.450	5.420	-0.300	0.0	0.0
1820	5.450	5.420	-0.300	0.0	0.0	1940	5.450	5.420	-0.300	0.0	0.0
1830	5.450	5.420	-0.300	0.0	0.0	1950	5.450	5.420	-0.300	0.0	0.0
1840	5.450	5.420	-0.300	0.0	0.0	1960	5.450	5.420	-0.300	0.0	0.0
1850	5.450	5.420	-0.300	0.0	0.0	1970	5.450	5.420	-0.300	0.0	0.0
1860	5.450	5.420	-0.300	0.0	0.0	1980	5.450	5.420	-0.300	0.0	0.0
1870	5.450	5.420	-0.300	0.0	0.0	1990	5.450	5.420	-0.300	0.0	0.0
1880	5.450	5.420	-0.300	0.0	0.0	2000	5.450	5.420	-0.300	0.0	0.0

GTA Civils Ltd						Page 135					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 12.001 US/MH SWMH12.2 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	5.422	4.962	-0.298	0.0	0.1	230	5.454	5.027	-0.266	0.0	2.0
20	5.426	4.966	-0.294	0.0	0.2	240	5.456	5.032	-0.264	0.0	2.2
30	5.428	4.968	-0.292	0.0	0.4	250	5.457	5.039	-0.263	0.0	2.4
40	5.430	4.970	-0.290	0.0	0.5	260	5.458	5.046	-0.262	0.0	2.6
50	5.431	4.972	-0.289	0.0	0.5	270	5.460	5.055	-0.260	0.0	2.8
60	5.432	4.973	-0.288	0.0	0.5	280	5.461	5.066	-0.259	0.0	3.0
70	5.432	4.973	-0.288	0.0	0.6	290	5.462	5.079	-0.258	0.0	3.1
80	5.432	4.973	-0.288	0.0	0.6	300	5.462	5.096	-0.258	0.0	3.2
90	5.432	4.973	-0.288	0.0	0.6	310	5.462	5.115	-0.258	0.0	3.2
100	5.432	4.973	-0.288	0.0	0.6	320	5.462	5.136	-0.258	0.0	3.1
110	5.432	4.973	-0.288	0.0	0.6	330	5.461	5.158	-0.259	0.0	3.0
120	5.433	4.974	-0.287	0.0	0.6	340	5.460	5.180	-0.260	0.0	2.8
130	5.434	4.975	-0.286	0.0	0.6	350	5.458	5.199	-0.262	0.0	2.6
140	5.435	4.976	-0.285	0.0	0.7	360	5.457	5.217	-0.263	0.0	2.4
150	5.436	4.978	-0.284	0.0	0.7	370	5.456	5.231	-0.264	0.0	2.2
160	5.438	4.981	-0.282	0.0	0.8	380	5.454	5.242	-0.266	0.0	2.0
170	5.441	4.985	-0.279	0.0	0.9	390	5.453	5.249	-0.267	0.0	1.8
180	5.444	4.990	-0.276	0.0	1.1	400	5.451	5.253	-0.269	0.0	1.6
190	5.447	4.996	-0.273	0.0	1.2	410	5.450	5.255	-0.270	0.0	1.4
200	5.450	5.003	-0.270	0.0	1.4	420	5.447	5.257	-0.273	0.0	1.3
210	5.451	5.010	-0.269	0.0	1.6	430	5.444	5.256	-0.276	0.0	1.1
220	5.453	5.019	-0.267	0.0	1.8	440	5.441	5.255	-0.279	0.0	1.0
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GTA Civils Ltd		Page 139
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 12.001 US/MH SWMH12.2 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.420	4.994	-0.300	0.0	0.0	1890	5.420	4.963	-0.300	0.0	0.0
1780	5.420	4.991	-0.300	0.0	0.0	1900	5.420	4.961	-0.300	0.0	0.0
1790	5.420	4.989	-0.300	0.0	0.0	1910	5.420	4.960	-0.300	0.0	0.0
1800	5.420	4.986	-0.300	0.0	0.0	1920	5.420	4.960	-0.300	0.0	0.0
1810	5.420	4.984	-0.300	0.0	0.0	1930	5.420	4.960	-0.300	0.0	0.0
1820	5.420	4.981	-0.300	0.0	0.0	1940	5.420	4.960	-0.300	0.0	0.0
1830	5.420	4.979	-0.300	0.0	0.0	1950	5.420	4.960	-0.300	0.0	0.0
1840	5.420	4.976	-0.300	0.0	0.0	1960	5.420	4.960	-0.300	0.0	0.0
1850	5.420	4.974	-0.300	0.0	0.0	1970	5.420	4.960	-0.300	0.0	0.0
1860	5.420	4.971	-0.300	0.0	0.0	1980	5.420	4.960	-0.300	0.0	0.0
1870	5.420	4.969	-0.300	0.0	0.0	1990	5.420	4.960	-0.300	0.0	0.0
1880	5.420	4.966	-0.300	0.0	0.0	2000	5.420	4.960	-0.300	0.0	0.0

GTA Civils Ltd						Page 140					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 12.002 US/MH SWMH12.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.962	4.826	-0.673	0.0	0.1	230	5.027	4.995	-0.608	0.0	3.4
20	4.966	4.855	-0.669	0.0	0.4	240	5.032	5.006	-0.603	0.0	3.8
30	4.968	4.884	-0.667	0.0	0.6	250	5.039	5.018	-0.596	0.0	4.2
40	4.970	4.895	-0.665	0.0	0.8	260	5.046	5.031	-0.589	0.0	4.5
50	4.972	4.899	-0.663	0.0	0.9	270	5.055	5.043	-0.580	0.0	4.8
60	4.973	4.902	-0.662	0.0	0.9	280	5.066	5.057	-0.569	0.0	5.1
70	4.973	4.903	-0.662	0.0	1.0	290	5.079	5.072	-0.556	0.0	5.3
80	4.973	4.904	-0.662	0.0	1.0	300	5.096	5.092	-0.539	0.0	5.5
90	4.973	4.904	-0.662	0.0	1.0	310	5.115	5.113	-0.520	0.0	5.5
100	4.973	4.904	-0.662	0.0	1.0	320	5.136	5.134	-0.499	0.0	5.3
110	4.973	4.905	-0.662	0.0	1.0	330	5.158	5.157	-0.477	0.0	5.1
120	4.974	4.906	-0.661	0.0	1.0	340	5.180	5.179	-0.455	0.0	4.8
130	4.975	4.909	-0.660	0.0	1.1	350	5.199	5.199	-0.436	0.0	4.5
140	4.976	4.912	-0.659	0.0	1.2	360	5.217	5.217	-0.418	0.0	4.2
150	4.978	4.917	-0.657	0.0	1.3	370	5.231	5.230	-0.404	0.0	3.8
160	4.981	4.923	-0.654	0.0	1.4	380	5.242	5.241	-0.393	0.0	3.5
170	4.985	4.931	-0.650	0.0	1.6	390	5.249	5.248	-0.386	0.0	3.2
180	4.990	4.940	-0.645	0.0	1.8	400	5.253	5.252	-0.382	0.0	2.8
190	4.996	4.952	-0.639	0.0	2.1	410	5.255	5.255	-0.380	0.0	2.5
200	5.003	4.963	-0.632	0.0	2.4	420	5.257	5.256	-0.378	0.0	2.2
210	5.010	4.973	-0.625	0.0	2.7	430	5.256	5.256	-0.379	0.0	1.9
220	5.019	4.984	-0.616	0.0	3.1	440	5.255	5.255	-0.380	0.0	1.7
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GTA Civils Ltd						Page 142					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 12.002 US/MH SWMH12.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.440	0.0	0.0	1110	5.148	5.148	-0.487	0.0	0.0
900	5.193	5.193	-0.442	0.0	0.0	1120	5.146	5.146	-0.489	0.0	0.0
910	5.191	5.191	-0.444	0.0	0.0	1130	5.144	5.144	-0.491	0.0	0.0
920	5.189	5.189	-0.446	0.0	0.0	1140	5.142	5.142	-0.493	0.0	0.0
930	5.187	5.187	-0.448	0.0	0.0	1150	5.140	5.140	-0.495	0.0	0.0
940	5.185	5.185	-0.450	0.0	0.0	1160	5.137	5.138	-0.498	0.0	0.0
950	5.182	5.182	-0.453	0.0	0.0	1170	5.135	5.135	-0.500	0.0	0.0
960	5.180	5.181	-0.455	0.0	0.0	1180	5.133	5.133	-0.502	0.0	0.0
970	5.178	5.178	-0.457	0.0	0.0	1190	5.131	5.131	-0.504	0.0	0.0
980	5.176	5.176	-0.459	0.0	0.0	1200	5.129	5.129	-0.506	0.0	0.0
990	5.174	5.174	-0.461	0.0	0.0	1210	5.126	5.127	-0.509	0.0	0.0
1000	5.172	5.172	-0.463	0.0	0.0	1220	5.124	5.124	-0.511	0.0	0.0
1010	5.170	5.170	-0.465	0.0	0.0	1230	5.122	5.122	-0.513	0.0	0.0
1020	5.168	5.168	-0.467	0.0	0.0	1240	5.120	5.120	-0.515	0.0	0.0
1030	5.165	5.165	-0.470	0.0	0.0	1250	5.118	5.118	-0.517	0.0	0.0
1040	5.163	5.163	-0.472	0.0	0.0	1260	5.115	5.115	-0.520	0.0	0.0
1050	5.161	5.161	-0.474	0.0	0.0	1270	5.113	5.113	-0.522	0.0	0.0
1060	5.159	5.159	-0.476	0.0	0.0	1280	5.111	5.111	-0.524	0.0	0.0
1070	5.157	5.157	-0.478	0.0	0.0	1290	5.108	5.109	-0.527	0.0	0.0
1080	5.155	5.155	-0.480	0.0	0.0	1300	5.106	5.106	-0.529	0.0	0.0
1090	5.153	5.153	-0.482	0.0	0.0	1310	5.104	5.104	-0.531	0.0	0.0
1100	5.151	5.151	-0.484	0.0	0.0	1320	5.102	5.102	-0.533	0.0	0.0
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GTA Civils Ltd						Page 143					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 12.002 US/MH SWMH12.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.099	5.100	-0.536	0.0	0.0	1550	5.048	5.048	-0.587	0.0	0.0
1340	5.097	5.097	-0.538	0.0	0.0	1560	5.046	5.046	-0.589	0.0	0.0
1350	5.095	5.095	-0.540	0.0	0.0	1570	5.044	5.044	-0.591	0.0	0.0
1360	5.093	5.093	-0.542	0.0	0.0	1580	5.041	5.041	-0.594	0.0	0.0
1370	5.090	5.090	-0.545	0.0	0.0	1590	5.039	5.039	-0.596	0.0	0.0
1380	5.088	5.088	-0.547	0.0	0.0	1600	5.036	5.036	-0.599	0.0	0.0
1390	5.086	5.086	-0.549	0.0	0.0	1610	5.034	5.034	-0.601	0.0	0.0
1400	5.084	5.084	-0.551	0.0	0.0	1620	5.031	5.031	-0.604	0.0	0.0
1410	5.081	5.081	-0.554	0.0	0.0	1630	5.029	5.029	-0.606	0.0	0.0
1420	5.079	5.079	-0.556	0.0	0.0	1640	5.026	5.027	-0.609	0.0	0.0
1430	5.076	5.076	-0.559	0.0	0.0	1650	5.024	5.024	-0.611	0.0	0.0
1440	5.074	5.074	-0.561	0.0	0.0	1660	5.021	5.021	-0.614	0.0	0.0
1450	5.072	5.072	-0.563	0.0	0.0	1670	5.019	5.019	-0.616	0.0	0.0
1460	5.069	5.070	-0.566	0.0	0.0	1680	5.017	5.017	-0.618	0.0	0.0
1470	5.067	5.067	-0.568	0.0	0.0	1690	5.014	5.014	-0.621	0.0	0.0
1480	5.065	5.065	-0.570	0.0	0.0	1700	5.012	5.012	-0.623	0.0	0.0
1490	5.063	5.063	-0.572	0.0	0.0	1710	5.009	5.009	-0.626	0.0	0.0
1500	5.060	5.060	-0.575	0.0	0.0	1720	5.007	5.007	-0.628	0.0	0.0
1510	5.058	5.058	-0.577	0.0	0.0	1730	5.004	5.004	-0.631	0.0	0.0
1520	5.055	5.055	-0.580	0.0	0.0	1740	5.002	5.002	-0.633	0.0	0.0
1530	5.053	5.053	-0.582	0.0	0.0	1750	4.999	4.999	-0.636	0.0	0.0
1540	5.051	5.051	-0.584	0.0	0.0	1760	4.996	4.996	-0.639	0.0	0.0
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GTA Civils Ltd		Page 144
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 12.002 US/MH SWMH12.3 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.641	0.0	0.0	1890	4.963	4.963	-0.672	0.0	0.0
1780	4.991	4.991	-0.644	0.0	0.0	1900	4.961	4.961	-0.674	0.0	0.0
1790	4.989	4.989	-0.646	0.0	0.0	1910	4.960	4.958	-0.675	0.0	0.0
1800	4.986	4.986	-0.649	0.0	0.0	1920	4.960	4.956	-0.675	0.0	0.0
1810	4.984	4.984	-0.651	0.0	0.0	1930	4.960	4.953	-0.675	0.0	0.0
1820	4.981	4.981	-0.654	0.0	0.0	1940	4.960	4.950	-0.675	0.0	0.0
1830	4.979	4.979	-0.656	0.0	0.0	1950	4.960	4.948	-0.675	0.0	0.0
1840	4.976	4.976	-0.659	0.0	0.0	1960	4.960	4.945	-0.675	0.0	0.0
1850	4.974	4.974	-0.661	0.0	0.0	1970	4.960	4.942	-0.675	0.0	0.0
1860	4.971	4.971	-0.664	0.0	0.0	1980	4.960	4.940	-0.675	0.0	0.0
1870	4.969	4.968	-0.666	0.0	0.0	1990	4.960	4.937	-0.675	0.0	0.0
1880	4.966	4.966	-0.669	0.0	0.0	2000	4.960	4.934	-0.675	0.0	0.0

GTA Civils Ltd						Page 145					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.011 US/MH SWMH8.12 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.826	4.793	-0.734	0.0	0.4	230	4.995	4.966	-0.565	0.0	24.0
20	4.855	4.820	-0.705	0.0	1.7	240	5.006	4.978	-0.554	0.0	26.7
30	4.884	4.848	-0.676	0.0	3.4	250	5.018	4.992	-0.542	0.0	29.2
40	4.895	4.862	-0.665	0.0	5.2	260	5.031	5.006	-0.529	0.0	31.6
50	4.899	4.867	-0.661	0.0	6.2	270	5.043	5.020	-0.517	0.0	33.8
60	4.902	4.870	-0.658	0.0	6.8	280	5.057	5.036	-0.503	0.0	36.0
70	4.903	4.872	-0.657	0.0	7.2	290	5.072	5.055	-0.488	0.0	37.6
80	4.904	4.872	-0.656	0.0	7.3	300	5.092	5.079	-0.468	0.0	38.1
90	4.904	4.873	-0.656	0.0	7.3	310	5.113	5.103	-0.447	0.0	37.8
100	4.904	4.873	-0.656	0.0	7.3	320	5.134	5.126	-0.426	0.0	36.4
110	4.905	4.874	-0.655	0.0	7.4	330	5.157	5.149	-0.403	0.0	33.8
120	4.906	4.875	-0.654	0.0	7.5	340	5.179	5.170	-0.381	0.0	31.6
130	4.909	4.878	-0.651	0.0	7.8	350	5.199	5.190	-0.361	0.0	29.4
140	4.912	4.881	-0.648	0.0	8.4	360	5.217	5.207	-0.343	0.0	27.2
150	4.917	4.886	-0.643	0.0	9.1	370	5.230	5.221	-0.330	0.0	25.5
160	4.923	4.892	-0.637	0.0	10.0	380	5.241	5.232	-0.319	0.0	23.6
170	4.931	4.900	-0.629	0.0	11.2	390	5.248	5.240	-0.312	0.0	22.1
180	4.940	4.909	-0.620	0.0	12.7	400	5.252	5.245	-0.308	0.0	20.3
190	4.952	4.921	-0.608	0.0	14.4	410	5.255	5.249	-0.305	0.0	18.4
200	4.963	4.933	-0.597	0.0	16.6	420	5.256	5.251	-0.304	0.0	16.7
210	4.973	4.943	-0.587	0.0	18.9	430	5.256	5.251	-0.304	0.0	15.1
220	4.984	4.955	-0.576	0.0	21.3	440	5.255	5.251	-0.305	0.0	13.5
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GTA Civils Ltd						Page 146					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.011 US/MH SWMH8.12 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.253	5.250	-0.307	0.0	12.2	670	5.240	5.240	-0.320	0.0	0.6
460	5.251	5.249	-0.309	0.0	10.8	680	5.238	5.238	-0.322	0.0	0.6
470	5.250	5.248	-0.310	0.0	9.6	690	5.236	5.236	-0.324	0.0	0.6
480	5.250	5.248	-0.310	0.0	8.6	700	5.234	5.234	-0.326	0.0	0.6
490	5.250	5.249	-0.310	0.0	7.8	710	5.232	5.232	-0.328	0.0	0.6
500	5.251	5.250	-0.309	0.0	7.3	720	5.230	5.230	-0.330	0.0	0.6
510	5.252	5.251	-0.308	0.0	7.0	730	5.228	5.228	-0.332	0.0	0.6
520	5.254	5.253	-0.306	0.0	6.9	740	5.226	5.226	-0.334	0.0	0.6
530	5.256	5.255	-0.304	0.0	6.8	750	5.224	5.224	-0.336	0.0	0.6
540	5.257	5.256	-0.303	0.0	6.8	760	5.222	5.222	-0.338	0.0	0.6
550	5.259	5.258	-0.301	0.0	6.7	770	5.220	5.220	-0.340	0.0	0.6
560	5.260	5.259	-0.300	0.0	6.6	780	5.218	5.218	-0.342	0.0	0.6
570	5.260	5.259	-0.300	0.0	6.3	790	5.216	5.216	-0.344	0.0	0.6
580	5.259	5.259	-0.301	0.0	5.6	800	5.213	5.214	-0.347	0.0	0.6
590	5.257	5.257	-0.303	0.0	4.5	810	5.211	5.212	-0.349	0.0	0.6
600	5.254	5.254	-0.306	0.0	2.9	820	5.209	5.209	-0.351	0.0	0.6
610	5.252	5.252	-0.308	0.0	1.2	830	5.207	5.207	-0.353	0.0	0.6
620	5.250	5.250	-0.310	0.0	0.6	840	5.205	5.205	-0.355	0.0	0.6
630	5.248	5.248	-0.312	0.0	0.6	850	5.203	5.203	-0.357	0.0	0.6
640	5.246	5.246	-0.314	0.0	0.6	860	5.201	5.201	-0.359	0.0	0.6
650	5.244	5.244	-0.316	0.0	0.6	870	5.199	5.199	-0.361	0.0	0.6
660	5.242	5.242	-0.318	0.0	0.6	880	5.197	5.197	-0.363	0.0	0.6
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GTA Civils Ltd						Page 148					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.011 US/MH SWMH8.12 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.100	5.100	-0.460	0.0	0.4	1550	5.048	5.048	-0.512	0.0	0.4
1340	5.097	5.097	-0.463	0.0	0.4	1560	5.046	5.046	-0.514	0.0	0.4
1350	5.095	5.095	-0.465	0.0	0.4	1570	5.044	5.044	-0.516	0.0	0.4
1360	5.093	5.093	-0.467	0.0	0.5	1580	5.041	5.041	-0.519	0.0	0.4
1370	5.090	5.090	-0.470	0.0	0.4	1590	5.039	5.039	-0.521	0.0	0.4
1380	5.088	5.088	-0.472	0.0	0.4	1600	5.036	5.036	-0.524	0.0	0.4
1390	5.086	5.086	-0.474	0.0	0.4	1610	5.034	5.034	-0.526	0.0	0.4
1400	5.084	5.084	-0.476	0.0	0.4	1620	5.031	5.031	-0.529	0.0	0.4
1410	5.081	5.081	-0.479	0.0	0.4	1630	5.029	5.029	-0.531	0.0	0.4
1420	5.079	5.079	-0.481	0.0	0.4	1640	5.027	5.027	-0.533	0.0	0.3
1430	5.076	5.076	-0.484	0.0	0.4	1650	5.024	5.024	-0.536	0.0	0.3
1440	5.074	5.074	-0.486	0.0	0.4	1660	5.021	5.022	-0.539	0.0	0.3
1450	5.072	5.072	-0.488	0.0	0.4	1670	5.019	5.019	-0.541	0.0	0.3
1460	5.070	5.070	-0.490	0.0	0.4	1680	5.017	5.017	-0.543	0.0	0.3
1470	5.067	5.067	-0.493	0.0	0.4	1690	5.014	5.014	-0.546	0.0	0.3
1480	5.065	5.065	-0.495	0.0	0.4	1700	5.012	5.012	-0.548	0.0	0.3
1490	5.063	5.063	-0.497	0.0	0.4	1710	5.009	5.009	-0.551	0.0	0.3
1500	5.060	5.060	-0.500	0.0	0.4	1720	5.007	5.007	-0.553	0.0	0.3
1510	5.058	5.058	-0.502	0.0	0.4	1730	5.004	5.004	-0.556	0.0	0.3
1520	5.055	5.056	-0.505	0.0	0.4	1740	5.002	5.002	-0.558	0.0	0.3
1530	5.053	5.053	-0.507	0.0	0.4	1750	4.999	4.999	-0.561	0.0	0.3
1540	5.051	5.051	-0.509	0.0	0.4	1760	4.996	4.997	-0.564	0.0	0.3
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GTA Civils Ltd		Page 149
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.011 US/MH SWMH8.12 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.566	0.0	0.2	1890	4.963	4.963	-0.597	0.0	0.2
1780	4.991	4.991	-0.569	0.0	0.2	1900	4.961	4.961	-0.599	0.0	0.2
1790	4.989	4.989	-0.571	0.0	0.2	1910	4.958	4.958	-0.602	0.0	0.2
1800	4.986	4.986	-0.574	0.0	0.2	1920	4.956	4.956	-0.604	0.0	0.2
1810	4.984	4.984	-0.576	0.0	0.2	1930	4.953	4.953	-0.607	0.0	0.2
1820	4.981	4.981	-0.579	0.0	0.2	1940	4.950	4.950	-0.610	0.0	0.2
1830	4.979	4.979	-0.581	0.0	0.2	1950	4.948	4.948	-0.612	0.0	0.2
1840	4.976	4.976	-0.584	0.0	0.2	1960	4.945	4.945	-0.615	0.0	0.2
1850	4.974	4.974	-0.586	0.0	0.2	1970	4.942	4.942	-0.618	0.0	0.2
1860	4.971	4.971	-0.589	0.0	0.2	1980	4.940	4.940	-0.620	0.0	0.2
1870	4.968	4.968	-0.592	0.0	0.2	1990	4.937	4.937	-0.623	0.0	0.2
1880	4.966	4.966	-0.594	0.0	0.2	2000	4.934	4.934	-0.626	0.0	0.2

GTA Civils Ltd						Page 150					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.012 US/MH SWMH8.13 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.793	4.747	-0.737	0.0	0.3	230	4.966	4.933	-0.564	0.0	24.5
20	4.820	4.773	-0.710	0.0	1.5	240	4.978	4.947	-0.552	0.0	27.3
30	4.848	4.800	-0.682	0.0	3.3	250	4.992	4.962	-0.538	0.0	29.9
40	4.862	4.817	-0.668	0.0	5.2	260	5.006	4.978	-0.524	0.0	32.3
50	4.867	4.823	-0.663	0.0	6.4	270	5.020	4.996	-0.510	0.0	34.6
60	4.870	4.827	-0.660	0.0	7.0	280	5.036	5.014	-0.494	0.0	36.9
70	4.872	4.830	-0.658	0.0	7.4	290	5.055	5.037	-0.475	0.0	38.5
80	4.872	4.831	-0.658	0.0	7.5	300	5.079	5.061	-0.451	0.0	39.0
90	4.873	4.832	-0.657	0.0	7.6	310	5.103	5.085	-0.427	0.0	38.7
100	4.873	4.832	-0.657	0.0	7.6	320	5.126	5.107	-0.404	0.0	37.3
110	4.874	4.834	-0.656	0.0	7.6	330	5.149	5.129	-0.381	0.0	34.7
120	4.875	4.835	-0.655	0.0	7.8	340	5.170	5.149	-0.360	0.0	32.5
130	4.878	4.838	-0.652	0.0	8.1	350	5.190	5.167	-0.340	0.0	30.2
140	4.881	4.842	-0.649	0.0	8.6	360	5.207	5.184	-0.323	0.0	28.0
150	4.886	4.847	-0.644	0.0	9.3	370	5.221	5.199	-0.309	0.0	26.3
160	4.892	4.854	-0.638	0.0	10.3	380	5.232	5.211	-0.298	0.0	24.4
170	4.900	4.862	-0.630	0.0	11.5	390	5.240	5.220	-0.290	0.0	22.8
180	4.909	4.871	-0.621	0.0	12.9	400	5.245	5.227	-0.285	0.0	21.0
190	4.921	4.883	-0.609	0.0	14.7	410	5.249	5.232	-0.281	0.0	19.1
200	4.933	4.895	-0.597	0.0	16.9	420	5.251	5.237	-0.279	0.0	17.3
210	4.943	4.907	-0.587	0.0	19.3	430	5.251	5.240	-0.279	0.0	15.6
220	4.955	4.920	-0.575	0.0	21.8	440	5.251	5.241	-0.279	0.0	14.1
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GTA Civils Ltd						Page 151					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.012 US/MH SWMH8.13 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.250	5.242	-0.280	0.0	12.7	670	5.240	5.240	-0.290	0.0	0.7
460	5.249	5.243	-0.281	0.0	11.3	680	5.238	5.238	-0.292	0.0	0.6
470	5.248	5.244	-0.282	0.0	10.0	690	5.236	5.236	-0.294	0.0	0.7
480	5.248	5.245	-0.282	0.0	8.9	700	5.234	5.234	-0.296	0.0	0.7
490	5.249	5.246	-0.281	0.0	8.1	710	5.232	5.232	-0.298	0.0	0.7
500	5.250	5.247	-0.280	0.0	7.6	720	5.230	5.230	-0.300	0.0	0.6
510	5.251	5.249	-0.279	0.0	7.2	730	5.228	5.228	-0.302	0.0	0.7
520	5.253	5.250	-0.277	0.0	7.1	740	5.226	5.226	-0.304	0.0	0.6
530	5.255	5.252	-0.275	0.0	7.0	750	5.224	5.224	-0.306	0.0	0.6
540	5.256	5.254	-0.274	0.0	7.0	760	5.222	5.222	-0.308	0.0	0.7
550	5.258	5.255	-0.272	0.0	6.9	770	5.220	5.220	-0.310	0.0	0.6
560	5.259	5.256	-0.271	0.0	6.8	780	5.218	5.218	-0.312	0.0	0.7
570	5.259	5.257	-0.271	0.0	6.5	790	5.216	5.216	-0.314	0.0	0.6
580	5.259	5.257	-0.271	0.0	5.9	800	5.214	5.214	-0.316	0.0	0.6
590	5.257	5.256	-0.273	0.0	4.8	810	5.212	5.212	-0.318	0.0	0.6
600	5.254	5.254	-0.276	0.0	3.1	820	5.209	5.209	-0.321	0.0	0.6
610	5.252	5.252	-0.278	0.0	1.4	830	5.207	5.207	-0.323	0.0	0.7
620	5.250	5.250	-0.280	0.0	0.7	840	5.205	5.205	-0.325	0.0	0.6
630	5.248	5.248	-0.282	0.0	0.7	850	5.203	5.203	-0.327	0.0	0.6
640	5.246	5.246	-0.284	0.0	0.7	860	5.201	5.201	-0.329	0.0	0.7
650	5.244	5.244	-0.286	0.0	0.7	870	5.199	5.199	-0.331	0.0	0.6
660	5.242	5.242	-0.288	0.0	0.7	880	5.197	5.197	-0.333	0.0	0.7
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GTA Civils Ltd						Page 152					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.012 US/MH SWMH8.13 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.335	0.0	0.6	1110	5.149	5.149	-0.381	0.0	0.6
900	5.193	5.193	-0.337	0.0	0.6	1120	5.146	5.146	-0.384	0.0	0.6
910	5.191	5.191	-0.339	0.0	0.6	1130	5.144	5.144	-0.386	0.0	0.6
920	5.189	5.189	-0.341	0.0	0.6	1140	5.142	5.142	-0.388	0.0	0.6
930	5.187	5.187	-0.343	0.0	0.6	1150	5.140	5.140	-0.390	0.0	0.6
940	5.185	5.185	-0.345	0.0	0.6	1160	5.138	5.138	-0.392	0.0	0.6
950	5.182	5.183	-0.348	0.0	0.6	1170	5.135	5.135	-0.395	0.0	0.6
960	5.181	5.181	-0.349	0.0	0.6	1180	5.133	5.133	-0.397	0.0	0.5
970	5.178	5.178	-0.352	0.0	0.6	1190	5.131	5.131	-0.399	0.0	0.6
980	5.176	5.176	-0.354	0.0	0.6	1200	5.129	5.129	-0.401	0.0	0.5
990	5.174	5.174	-0.356	0.0	0.6	1210	5.127	5.127	-0.403	0.0	0.6
1000	5.172	5.172	-0.358	0.0	0.6	1220	5.124	5.124	-0.406	0.0	0.5
1010	5.170	5.170	-0.360	0.0	0.6	1230	5.122	5.122	-0.408	0.0	0.6
1020	5.168	5.168	-0.362	0.0	0.6	1240	5.120	5.120	-0.410	0.0	0.5
1030	5.166	5.166	-0.364	0.0	0.6	1250	5.118	5.118	-0.412	0.0	0.5
1040	5.164	5.164	-0.366	0.0	0.6	1260	5.115	5.115	-0.415	0.0	0.5
1050	5.161	5.162	-0.369	0.0	0.6	1270	5.113	5.113	-0.417	0.0	0.5
1060	5.159	5.159	-0.371	0.0	0.6	1280	5.111	5.111	-0.419	0.0	0.5
1070	5.157	5.157	-0.373	0.0	0.6	1290	5.109	5.109	-0.421	0.0	0.5
1080	5.155	5.155	-0.375	0.0	0.6	1300	5.106	5.106	-0.424	0.0	0.5
1090	5.153	5.153	-0.377	0.0	0.6	1310	5.104	5.104	-0.426	0.0	0.5
1100	5.151	5.151	-0.379	0.0	0.6	1320	5.102	5.102	-0.428	0.0	0.5
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GTA Civils Ltd						Page 153					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.012 US/MH SWMH8.13 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.100	5.100	-0.430	0.0	0.5	1550	5.048	5.048	-0.482	0.0	0.5
1340	5.097	5.097	-0.433	0.0	0.5	1560	5.046	5.046	-0.484	0.0	0.4
1350	5.095	5.095	-0.435	0.0	0.5	1570	5.044	5.044	-0.486	0.0	0.4
1360	5.093	5.093	-0.437	0.0	0.5	1580	5.041	5.041	-0.489	0.0	0.4
1370	5.090	5.090	-0.440	0.0	0.5	1590	5.039	5.039	-0.491	0.0	0.4
1380	5.088	5.088	-0.442	0.0	0.5	1600	5.036	5.036	-0.494	0.0	0.4
1390	5.086	5.086	-0.444	0.0	0.5	1610	5.034	5.034	-0.496	0.0	0.4
1400	5.084	5.084	-0.446	0.0	0.5	1620	5.031	5.031	-0.499	0.0	0.4
1410	5.081	5.081	-0.449	0.0	0.5	1630	5.029	5.029	-0.501	0.0	0.4
1420	5.079	5.079	-0.451	0.0	0.5	1640	5.027	5.027	-0.503	0.0	0.4
1430	5.076	5.077	-0.454	0.0	0.5	1650	5.024	5.024	-0.506	0.0	0.4
1440	5.074	5.074	-0.456	0.0	0.5	1660	5.022	5.022	-0.508	0.0	0.4
1450	5.072	5.072	-0.458	0.0	0.5	1670	5.019	5.019	-0.511	0.0	0.4
1460	5.070	5.070	-0.460	0.0	0.5	1680	5.017	5.017	-0.513	0.0	0.4
1470	5.067	5.067	-0.463	0.0	0.5	1690	5.014	5.014	-0.516	0.0	0.3
1480	5.065	5.065	-0.465	0.0	0.5	1700	5.012	5.012	-0.518	0.0	0.3
1490	5.063	5.063	-0.467	0.0	0.5	1710	5.009	5.009	-0.521	0.0	0.3
1500	5.060	5.060	-0.470	0.0	0.4	1720	5.007	5.007	-0.523	0.0	0.3
1510	5.058	5.058	-0.472	0.0	0.5	1730	5.004	5.004	-0.526	0.0	0.3
1520	5.056	5.056	-0.474	0.0	0.5	1740	5.002	5.002	-0.528	0.0	0.3
1530	5.053	5.053	-0.477	0.0	0.5	1750	4.999	4.999	-0.531	0.0	0.3
1540	5.051	5.051	-0.479	0.0	0.5	1760	4.997	4.997	-0.533	0.0	0.3
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GTA Civils Ltd		Page 154
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.012 US/MH SWMH8.13 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.536	0.0	0.3	1890	4.963	4.963	-0.567	0.0	0.3
1780	4.991	4.991	-0.539	0.0	0.3	1900	4.961	4.961	-0.569	0.0	0.3
1790	4.989	4.989	-0.541	0.0	0.3	1910	4.958	4.958	-0.572	0.0	0.3
1800	4.986	4.987	-0.544	0.0	0.3	1920	4.956	4.956	-0.574	0.0	0.3
1810	4.984	4.984	-0.546	0.0	0.3	1930	4.953	4.953	-0.577	0.0	0.3
1820	4.981	4.981	-0.549	0.0	0.3	1940	4.950	4.950	-0.580	0.0	0.3
1830	4.979	4.979	-0.551	0.0	0.3	1950	4.948	4.948	-0.582	0.0	0.3
1840	4.976	4.976	-0.554	0.0	0.3	1960	4.945	4.945	-0.585	0.0	0.3
1850	4.974	4.974	-0.556	0.0	0.3	1970	4.942	4.942	-0.588	0.0	0.3
1860	4.971	4.971	-0.559	0.0	0.3	1980	4.940	4.940	-0.590	0.0	0.2
1870	4.968	4.969	-0.562	0.0	0.3	1990	4.937	4.937	-0.593	0.0	0.2
1880	4.966	4.966	-0.564	0.0	0.3	2000	4.934	4.934	-0.596	0.0	0.2

GTA Civils Ltd						Page 155					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.013 US/MH SWMH8.14 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.747	4.740	-0.738	0.0	0.3	230	4.933	4.928	-0.552	0.0	25.6
20	4.773	4.765	-0.712	0.0	1.4	240	4.947	4.942	-0.538	0.0	28.4
30	4.800	4.791	-0.685	0.0	3.2	250	4.962	4.957	-0.523	0.0	31.1
40	4.817	4.808	-0.668	0.0	5.3	260	4.978	4.974	-0.507	0.0	33.6
50	4.823	4.815	-0.662	0.0	6.7	270	4.996	4.993	-0.489	0.0	36.0
60	4.827	4.819	-0.658	0.0	7.4	280	5.014	5.011	-0.471	0.0	38.4
70	4.830	4.823	-0.655	0.0	7.8	290	5.037	5.034	-0.448	0.0	39.9
80	4.831	4.825	-0.654	0.0	8.0	300	5.061	5.058	-0.424	0.0	40.3
90	4.832	4.825	-0.653	0.0	8.0	310	5.085	5.081	-0.400	0.0	40.1
100	4.832	4.826	-0.653	0.0	8.0	320	5.107	5.104	-0.378	0.0	38.7
110	4.834	4.827	-0.651	0.0	8.0	330	5.129	5.125	-0.356	0.0	36.0
120	4.835	4.829	-0.650	0.0	8.2	340	5.149	5.145	-0.336	0.0	33.8
130	4.838	4.832	-0.647	0.0	8.5	350	5.167	5.163	-0.318	0.0	31.4
140	4.842	4.836	-0.643	0.0	9.0	360	5.184	5.179	-0.301	0.0	29.1
150	4.847	4.842	-0.638	0.0	9.8	370	5.199	5.194	-0.286	0.0	27.3
160	4.854	4.848	-0.631	0.0	10.7	380	5.211	5.207	-0.274	0.0	25.4
170	4.862	4.856	-0.623	0.0	12.0	390	5.220	5.216	-0.265	0.0	23.8
180	4.871	4.865	-0.614	0.0	13.5	400	5.227	5.223	-0.258	0.0	21.9
190	4.883	4.877	-0.602	0.0	15.3	410	5.232	5.229	-0.253	0.0	20.0
200	4.895	4.889	-0.590	0.0	17.6	420	5.237	5.233	-0.248	0.0	18.1
210	4.907	4.902	-0.578	0.0	20.1	430	5.240	5.237	-0.245	0.0	16.3
220	4.920	4.915	-0.565	0.0	22.7	440	5.241	5.239	-0.244	0.0	14.8
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GTA Civils Ltd						Page 156					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.013 US/MH SWMH8.14 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.242	5.241	-0.243	0.0	13.3	670	5.240	5.240	-0.245	0.0	0.8
460	5.243	5.242	-0.242	0.0	11.8	680	5.238	5.238	-0.247	0.0	0.7
470	5.244	5.243	-0.241	0.0	10.5	690	5.236	5.236	-0.249	0.0	0.7
480	5.245	5.244	-0.240	0.0	9.3	700	5.234	5.234	-0.251	0.0	0.7
490	5.246	5.245	-0.239	0.0	8.5	710	5.232	5.232	-0.253	0.0	0.8
500	5.247	5.246	-0.238	0.0	7.9	720	5.230	5.230	-0.255	0.0	0.7
510	5.249	5.248	-0.236	0.0	7.6	730	5.228	5.228	-0.257	0.0	0.7
520	5.250	5.250	-0.235	0.0	7.4	740	5.226	5.226	-0.259	0.0	0.7
530	5.252	5.251	-0.233	0.0	7.4	750	5.224	5.224	-0.261	0.0	0.7
540	5.254	5.253	-0.231	0.0	7.3	760	5.222	5.222	-0.263	0.0	0.7
550	5.255	5.255	-0.230	0.0	7.3	770	5.220	5.220	-0.265	0.0	0.7
560	5.256	5.256	-0.229	0.0	7.1	780	5.218	5.218	-0.267	0.0	0.8
570	5.257	5.257	-0.228	0.0	6.8	790	5.216	5.216	-0.269	0.0	0.7
580	5.257	5.257	-0.228	0.0	6.2	800	5.214	5.214	-0.271	0.0	0.7
590	5.256	5.256	-0.229	0.0	5.0	810	5.212	5.212	-0.273	0.0	0.7
600	5.254	5.254	-0.231	0.0	3.3	820	5.209	5.209	-0.276	0.0	0.7
610	5.252	5.252	-0.233	0.0	1.5	830	5.207	5.207	-0.278	0.0	0.7
620	5.250	5.250	-0.235	0.0	0.8	840	5.205	5.205	-0.280	0.0	0.7
630	5.248	5.248	-0.237	0.0	0.8	850	5.203	5.203	-0.282	0.0	0.7
640	5.246	5.246	-0.239	0.0	0.8	860	5.201	5.201	-0.284	0.0	0.8
650	5.244	5.244	-0.241	0.0	0.8	870	5.199	5.199	-0.286	0.0	0.7
660	5.242	5.242	-0.243	0.0	0.8	880	5.197	5.197	-0.288	0.0	0.7
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GTA Civils Ltd						Page 158					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.013 US/MH SWMH8.14 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.100	5.100	-0.385	0.0	0.6	1550	5.048	5.048	-0.437	0.0	0.6
1340	5.097	5.097	-0.388	0.0	0.6	1560	5.046	5.046	-0.439	0.0	0.5
1350	5.095	5.095	-0.390	0.0	0.6	1570	5.044	5.044	-0.441	0.0	0.5
1360	5.093	5.093	-0.392	0.0	0.6	1580	5.041	5.041	-0.444	0.0	0.5
1370	5.090	5.090	-0.395	0.0	0.6	1590	5.039	5.039	-0.446	0.0	0.5
1380	5.088	5.088	-0.397	0.0	0.6	1600	5.036	5.036	-0.449	0.0	0.5
1390	5.086	5.086	-0.399	0.0	0.6	1610	5.034	5.034	-0.451	0.0	0.5
1400	5.084	5.084	-0.401	0.0	0.6	1620	5.031	5.032	-0.454	0.0	0.5
1410	5.081	5.081	-0.404	0.0	0.6	1630	5.029	5.029	-0.456	0.0	0.5
1420	5.079	5.079	-0.406	0.0	0.6	1640	5.027	5.027	-0.458	0.0	0.5
1430	5.077	5.077	-0.408	0.0	0.6	1650	5.024	5.024	-0.461	0.0	0.5
1440	5.074	5.074	-0.411	0.0	0.6	1660	5.022	5.022	-0.463	0.0	0.5
1450	5.072	5.072	-0.413	0.0	0.6	1670	5.019	5.019	-0.466	0.0	0.4
1460	5.070	5.070	-0.415	0.0	0.6	1680	5.017	5.017	-0.468	0.0	0.5
1470	5.067	5.067	-0.418	0.0	0.6	1690	5.014	5.014	-0.471	0.0	0.4
1480	5.065	5.065	-0.420	0.0	0.6	1700	5.012	5.012	-0.473	0.0	0.4
1490	5.063	5.063	-0.422	0.0	0.6	1710	5.009	5.009	-0.476	0.0	0.4
1500	5.060	5.060	-0.425	0.0	0.5	1720	5.007	5.007	-0.478	0.0	0.4
1510	5.058	5.058	-0.427	0.0	0.6	1730	5.004	5.004	-0.481	0.0	0.4
1520	5.056	5.056	-0.429	0.0	0.6	1740	5.002	5.002	-0.483	0.0	0.4
1530	5.053	5.053	-0.432	0.0	0.6	1750	4.999	4.999	-0.486	0.0	0.4
1540	5.051	5.051	-0.434	0.0	0.6	1760	4.997	4.997	-0.488	0.0	0.4
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GTA Civils Ltd		Page 159
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.013 US/MH SWMH8.14 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.491	0.0	0.4	1890	4.963	4.964	-0.522	0.0	0.4
1780	4.991	4.992	-0.494	0.0	0.4	1900	4.961	4.961	-0.524	0.0	0.4
1790	4.989	4.989	-0.496	0.0	0.4	1910	4.958	4.958	-0.527	0.0	0.4
1800	4.987	4.987	-0.498	0.0	0.4	1920	4.956	4.956	-0.529	0.0	0.4
1810	4.984	4.984	-0.501	0.0	0.4	1930	4.953	4.953	-0.532	0.0	0.4
1820	4.981	4.981	-0.504	0.0	0.4	1940	4.950	4.951	-0.535	0.0	0.4
1830	4.979	4.979	-0.506	0.0	0.4	1950	4.948	4.948	-0.537	0.0	0.4
1840	4.976	4.976	-0.509	0.0	0.4	1960	4.945	4.945	-0.540	0.0	0.3
1850	4.974	4.974	-0.511	0.0	0.4	1970	4.942	4.942	-0.543	0.0	0.4
1860	4.971	4.971	-0.514	0.0	0.4	1980	4.940	4.940	-0.545	0.0	0.3
1870	4.969	4.969	-0.516	0.0	0.4	1990	4.937	4.937	-0.548	0.0	0.3
1880	4.966	4.966	-0.519	0.0	0.4	2000	4.934	4.934	-0.551	0.0	0.3

GTA Civils Ltd						Page 165					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.014 US/MH SWCP8.15 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.740	4.719	-0.735	0.0	0.3	230	4.928	4.909	-0.547	0.0	27.7
20	4.765	4.736	-0.710	0.0	1.5	240	4.942	4.924	-0.533	0.0	30.6
30	4.791	4.755	-0.684	0.0	3.5	250	4.957	4.941	-0.518	0.0	33.6
40	4.808	4.775	-0.667	0.0	5.7	260	4.974	4.959	-0.501	0.0	36.3
50	4.815	4.785	-0.660	0.0	7.2	270	4.993	4.980	-0.482	0.0	38.9
60	4.819	4.792	-0.656	0.0	8.0	280	5.011	5.000	-0.464	0.0	41.5
70	4.823	4.797	-0.652	0.0	8.4	290	5.034	5.025	-0.441	0.0	43.1
80	4.825	4.800	-0.650	0.0	8.6	300	5.058	5.051	-0.417	0.0	43.6
90	4.825	4.802	-0.650	0.0	8.6	310	5.081	5.076	-0.394	0.0	43.4
100	4.826	4.803	-0.649	0.0	8.6	320	5.104	5.099	-0.371	0.0	41.9
110	4.827	4.805	-0.648	0.0	8.7	330	5.125	5.120	-0.350	0.0	39.2
120	4.829	4.808	-0.646	0.0	8.8	340	5.145	5.140	-0.330	0.0	36.7
130	4.832	4.811	-0.643	0.0	9.1	350	5.163	5.158	-0.312	0.0	34.2
140	4.836	4.815	-0.639	0.0	9.7	360	5.179	5.174	-0.296	0.0	31.7
150	4.842	4.820	-0.633	0.0	10.5	370	5.194	5.189	-0.281	0.0	29.6
160	4.848	4.826	-0.627	0.0	11.6	380	5.207	5.201	-0.268	0.0	27.5
170	4.856	4.834	-0.619	0.0	12.9	390	5.216	5.211	-0.259	0.0	25.7
180	4.865	4.843	-0.610	0.0	14.5	400	5.223	5.219	-0.252	0.0	23.7
190	4.877	4.854	-0.598	0.0	16.5	410	5.229	5.225	-0.246	0.0	21.5
200	4.889	4.867	-0.586	0.0	19.0	420	5.233	5.230	-0.242	0.0	19.4
210	4.902	4.882	-0.573	0.0	21.8	430	5.237	5.234	-0.238	0.0	17.5
220	4.915	4.896	-0.560	0.0	24.6	440	5.239	5.237	-0.236	0.0	15.8
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GTA Civils Ltd						Page 166					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.014 US/MH SWCP8.15 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.241	5.239	-0.234	0.0	14.2	670	5.240	5.240	-0.235	0.0	0.8
460	5.242	5.240	-0.233	0.0	12.7	680	5.238	5.238	-0.237	0.0	0.8
470	5.243	5.241	-0.232	0.0	11.2	690	5.236	5.236	-0.239	0.0	0.8
480	5.244	5.243	-0.231	0.0	10.0	700	5.234	5.234	-0.241	0.0	0.8
490	5.245	5.244	-0.230	0.0	9.2	710	5.232	5.232	-0.243	0.0	0.8
500	5.246	5.246	-0.229	0.0	8.6	720	5.230	5.230	-0.245	0.0	0.7
510	5.248	5.247	-0.227	0.0	8.2	730	5.228	5.228	-0.247	0.0	0.8
520	5.250	5.249	-0.225	0.0	8.0	740	5.226	5.226	-0.249	0.0	0.7
530	5.251	5.250	-0.224	0.0	8.0	750	5.224	5.224	-0.251	0.0	0.8
540	5.253	5.252	-0.222	0.0	7.9	760	5.222	5.222	-0.253	0.0	0.8
550	5.255	5.254	-0.220	0.0	7.9	770	5.220	5.220	-0.255	0.0	0.7
560	5.256	5.255	-0.219	0.0	7.7	780	5.218	5.218	-0.257	0.0	0.8
570	5.257	5.256	-0.218	0.0	7.3	790	5.216	5.216	-0.259	0.0	0.7
580	5.257	5.256	-0.218	0.0	6.6	800	5.214	5.214	-0.261	0.0	0.8
590	5.256	5.255	-0.219	0.0	5.4	810	5.212	5.212	-0.263	0.0	0.8
600	5.254	5.254	-0.221	0.0	3.5	820	5.209	5.209	-0.266	0.0	0.8
610	5.252	5.252	-0.223	0.0	1.6	830	5.207	5.207	-0.268	0.0	0.8
620	5.250	5.250	-0.225	0.0	0.8	840	5.205	5.205	-0.270	0.0	0.8
630	5.248	5.248	-0.227	0.0	0.8	850	5.203	5.203	-0.272	0.0	0.8
640	5.246	5.246	-0.229	0.0	0.8	860	5.201	5.201	-0.274	0.0	0.8
650	5.244	5.244	-0.231	0.0	0.8	870	5.199	5.199	-0.276	0.0	0.7
660	5.242	5.242	-0.233	0.0	0.8	880	5.197	5.197	-0.278	0.0	0.8
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GTA Civils Ltd						Page 167					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.014 US/MH SWCP8.15 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.280	0.0	0.7	1110	5.149	5.149	-0.326	0.0	0.7
900	5.193	5.193	-0.282	0.0	0.8	1120	5.146	5.146	-0.329	0.0	0.7
910	5.191	5.191	-0.284	0.0	0.8	1130	5.144	5.144	-0.331	0.0	0.7
920	5.189	5.189	-0.286	0.0	0.8	1140	5.142	5.142	-0.333	0.0	0.7
930	5.187	5.187	-0.288	0.0	0.7	1150	5.140	5.140	-0.335	0.0	0.7
940	5.185	5.185	-0.290	0.0	0.7	1160	5.138	5.138	-0.337	0.0	0.7
950	5.183	5.183	-0.292	0.0	0.7	1170	5.135	5.136	-0.340	0.0	0.7
960	5.181	5.181	-0.294	0.0	0.7	1180	5.133	5.133	-0.342	0.0	0.7
970	5.178	5.178	-0.297	0.0	0.7	1190	5.131	5.131	-0.344	0.0	0.7
980	5.176	5.176	-0.299	0.0	0.8	1200	5.129	5.129	-0.346	0.0	0.7
990	5.174	5.174	-0.301	0.0	0.7	1210	5.127	5.127	-0.348	0.0	0.7
1000	5.172	5.172	-0.303	0.0	0.7	1220	5.124	5.124	-0.351	0.0	0.7
1010	5.170	5.170	-0.305	0.0	0.7	1230	5.122	5.122	-0.353	0.0	0.7
1020	5.168	5.168	-0.307	0.0	0.7	1240	5.120	5.120	-0.355	0.0	0.7
1030	5.166	5.166	-0.309	0.0	0.7	1250	5.118	5.118	-0.357	0.0	0.7
1040	5.164	5.164	-0.311	0.0	0.7	1260	5.116	5.116	-0.359	0.0	0.6
1050	5.162	5.162	-0.313	0.0	0.7	1270	5.113	5.113	-0.362	0.0	0.6
1060	5.159	5.159	-0.316	0.0	0.7	1280	5.111	5.111	-0.364	0.0	0.6
1070	5.157	5.157	-0.318	0.0	0.7	1290	5.109	5.109	-0.366	0.0	0.7
1080	5.155	5.155	-0.320	0.0	0.7	1300	5.107	5.107	-0.368	0.0	0.7
1090	5.153	5.153	-0.322	0.0	0.7	1310	5.104	5.104	-0.371	0.0	0.6
1100	5.151	5.151	-0.324	0.0	0.7	1320	5.102	5.102	-0.373	0.0	0.6
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GTA Civils Ltd						Page 168					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.100	5.100	-0.375	0.0	0.6	1550	5.048	5.049	-0.427	0.0	0.6
1340	5.097	5.097	-0.378	0.0	0.6	1560	5.046	5.046	-0.429	0.0	0.6
1350	5.095	5.095	-0.380	0.0	0.6	1570	5.044	5.044	-0.431	0.0	0.6
1360	5.093	5.093	-0.382	0.0	0.6	1580	5.041	5.041	-0.434	0.0	0.5
1370	5.090	5.091	-0.385	0.0	0.6	1590	5.039	5.039	-0.436	0.0	0.6
1380	5.088	5.088	-0.387	0.0	0.6	1600	5.036	5.036	-0.439	0.0	0.5
1390	5.086	5.086	-0.389	0.0	0.6	1610	5.034	5.034	-0.441	0.0	0.5
1400	5.084	5.084	-0.391	0.0	0.6	1620	5.032	5.032	-0.443	0.0	0.5
1410	5.081	5.081	-0.394	0.0	0.6	1630	5.029	5.029	-0.446	0.0	0.5
1420	5.079	5.079	-0.396	0.0	0.6	1640	5.027	5.027	-0.448	0.0	0.5
1430	5.077	5.077	-0.398	0.0	0.6	1650	5.024	5.024	-0.451	0.0	0.5
1440	5.074	5.074	-0.401	0.0	0.6	1660	5.022	5.022	-0.453	0.0	0.5
1450	5.072	5.072	-0.403	0.0	0.6	1670	5.019	5.019	-0.456	0.0	0.5
1460	5.070	5.070	-0.405	0.0	0.6	1680	5.017	5.017	-0.458	0.0	0.5
1470	5.067	5.067	-0.408	0.0	0.6	1690	5.014	5.014	-0.461	0.0	0.5
1480	5.065	5.065	-0.410	0.0	0.6	1700	5.012	5.012	-0.463	0.0	0.4
1490	5.063	5.063	-0.412	0.0	0.6	1710	5.009	5.009	-0.466	0.0	0.4
1500	5.060	5.060	-0.415	0.0	0.6	1720	5.007	5.007	-0.468	0.0	0.4
1510	5.058	5.058	-0.417	0.0	0.6	1730	5.004	5.004	-0.471	0.0	0.4
1520	5.056	5.056	-0.419	0.0	0.6	1740	5.002	5.002	-0.473	0.0	0.4
1530	5.053	5.053	-0.422	0.0	0.6	1750	4.999	4.999	-0.476	0.0	0.4
1540	5.051	5.051	-0.424	0.0	0.6	1760	4.997	4.997	-0.478	0.0	0.4
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GTA Civils Ltd		Page 169
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.014 US/MH SWCP8.15 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.481	0.0	0.4	1890	4.964	4.964	-0.511	0.0	0.4
1780	4.992	4.992	-0.483	0.0	0.4	1900	4.961	4.961	-0.514	0.0	0.4
1790	4.989	4.989	-0.486	0.0	0.4	1910	4.958	4.958	-0.517	0.0	0.4
1800	4.987	4.987	-0.488	0.0	0.4	1920	4.956	4.956	-0.519	0.0	0.4
1810	4.984	4.984	-0.491	0.0	0.4	1930	4.953	4.953	-0.522	0.0	0.4
1820	4.981	4.981	-0.494	0.0	0.4	1940	4.951	4.951	-0.524	0.0	0.4
1830	4.979	4.979	-0.496	0.0	0.4	1950	4.948	4.948	-0.527	0.0	0.4
1840	4.976	4.976	-0.499	0.0	0.4	1960	4.945	4.945	-0.530	0.0	0.4
1850	4.974	4.974	-0.501	0.0	0.4	1970	4.942	4.943	-0.533	0.0	0.4
1860	4.971	4.971	-0.504	0.0	0.4	1980	4.940	4.940	-0.535	0.0	0.4
1870	4.969	4.969	-0.506	0.0	0.4	1990	4.937	4.937	-0.538	0.0	0.3
1880	4.966	4.966	-0.509	0.0	0.4	2000	4.934	4.934	-0.541	0.0	0.3

GTA Civils Ltd						Page 170					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.015 US/MH Headwall 10 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.719	4.651	-0.891	0.0	0.2	230	4.909	4.870	-0.701	0.0	27.2
20	4.736	4.653	-0.874	0.0	1.2	240	4.924	4.888	-0.686	0.0	30.1
30	4.755	4.659	-0.855	0.0	3.1	250	4.941	4.909	-0.669	0.0	33.0
40	4.775	4.667	-0.835	0.0	5.3	260	4.959	4.932	-0.651	0.0	35.7
50	4.785	4.677	-0.825	0.0	7.0	270	4.980	4.956	-0.630	0.0	38.3
60	4.792	4.687	-0.818	0.0	7.8	280	5.000	4.980	-0.610	0.0	40.9
70	4.797	4.697	-0.813	0.0	8.3	290	5.025	5.004	-0.585	0.0	42.7
80	4.800	4.707	-0.810	0.0	8.5	300	5.051	5.029	-0.559	0.0	43.2
90	4.802	4.716	-0.808	0.0	8.6	310	5.076	5.052	-0.534	0.0	43.2
100	4.803	4.726	-0.807	0.0	8.6	320	5.099	5.075	-0.511	0.0	41.9
110	4.805	4.735	-0.805	0.0	8.6	330	5.120	5.095	-0.490	0.0	39.2
120	4.808	4.743	-0.802	0.0	8.8	340	5.140	5.114	-0.470	0.0	36.8
130	4.811	4.752	-0.799	0.0	9.1	350	5.158	5.131	-0.452	0.0	34.2
140	4.815	4.759	-0.795	0.0	9.6	360	5.174	5.146	-0.436	0.0	31.8
150	4.820	4.767	-0.790	0.0	10.3	370	5.189	5.160	-0.421	0.0	29.6
160	4.826	4.775	-0.784	0.0	11.3	380	5.201	5.172	-0.409	0.0	27.6
170	4.834	4.785	-0.776	0.0	12.6	390	5.211	5.184	-0.399	0.0	25.8
180	4.843	4.795	-0.767	0.0	14.1	400	5.219	5.194	-0.391	0.0	23.8
190	4.854	4.807	-0.756	0.0	16.0	410	5.225	5.202	-0.385	0.0	21.7
200	4.867	4.821	-0.743	0.0	18.5	420	5.230	5.210	-0.380	0.0	19.6
210	4.882	4.837	-0.728	0.0	21.3	430	5.234	5.216	-0.376	0.0	17.7
220	4.896	4.853	-0.714	0.0	24.0	440	5.237	5.222	-0.373	0.0	16.0
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GTA Civils Ltd						Page 171					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 8.015 US/MH Headwall 10 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.239	5.227	-0.371	0.0	14.4	670	5.240	5.240	-0.370	0.0	0.8
460	5.240	5.231	-0.370	0.0	12.8	680	5.238	5.238	-0.372	0.0	0.8
470	5.241	5.234	-0.369	0.0	11.4	690	5.236	5.236	-0.374	0.0	0.8
480	5.243	5.237	-0.367	0.0	10.2	700	5.234	5.234	-0.376	0.0	0.8
490	5.244	5.239	-0.366	0.0	9.2	710	5.232	5.232	-0.378	0.0	0.8
500	5.246	5.241	-0.364	0.0	8.6	720	5.230	5.230	-0.380	0.0	0.8
510	5.247	5.243	-0.363	0.0	8.2	730	5.228	5.228	-0.382	0.0	0.8
520	5.249	5.244	-0.361	0.0	8.0	740	5.226	5.226	-0.384	0.0	0.8
530	5.250	5.246	-0.360	0.0	7.9	750	5.224	5.224	-0.386	0.0	0.8
540	5.252	5.248	-0.358	0.0	7.9	760	5.222	5.222	-0.388	0.0	0.8
550	5.254	5.250	-0.356	0.0	7.9	770	5.220	5.220	-0.390	0.0	0.8
560	5.255	5.251	-0.355	0.0	7.7	780	5.218	5.218	-0.392	0.0	0.8
570	5.256	5.253	-0.354	0.0	7.4	790	5.216	5.216	-0.394	0.0	0.8
580	5.256	5.253	-0.354	0.0	6.7	800	5.214	5.214	-0.396	0.0	0.8
590	5.255	5.254	-0.355	0.0	5.6	810	5.212	5.212	-0.398	0.0	0.8
600	5.254	5.253	-0.356	0.0	3.8	820	5.209	5.209	-0.401	0.0	0.8
610	5.252	5.252	-0.358	0.0	1.8	830	5.207	5.207	-0.403	0.0	0.8
620	5.250	5.250	-0.360	0.0	0.9	840	5.205	5.205	-0.405	0.0	0.8
630	5.248	5.248	-0.362	0.0	0.8	850	5.203	5.203	-0.407	0.0	0.8
640	5.246	5.246	-0.364	0.0	0.8	860	5.201	5.201	-0.409	0.0	0.8
650	5.244	5.244	-0.366	0.0	0.8	870	5.199	5.199	-0.411	0.0	0.8
660	5.242	5.242	-0.368	0.0	0.8	880	5.197	5.197	-0.413	0.0	0.8
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GTA Civils Ltd		Page 174
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 8.015 US/MH Headwall 10 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.616	0.0	0.5	1890	4.964	4.964	-0.646	0.0	0.4
1780	4.992	4.992	-0.618	0.0	0.5	1900	4.961	4.961	-0.649	0.0	0.4
1790	4.989	4.989	-0.621	0.0	0.4	1910	4.958	4.958	-0.652	0.0	0.4
1800	4.987	4.987	-0.623	0.0	0.4	1920	4.956	4.956	-0.654	0.0	0.4
1810	4.984	4.984	-0.626	0.0	0.4	1930	4.953	4.953	-0.657	0.0	0.4
1820	4.981	4.982	-0.629	0.0	0.4	1940	4.951	4.951	-0.659	0.0	0.4
1830	4.979	4.979	-0.631	0.0	0.4	1950	4.948	4.948	-0.662	0.0	0.4
1840	4.976	4.976	-0.634	0.0	0.4	1960	4.945	4.945	-0.665	0.0	0.4
1850	4.974	4.974	-0.636	0.0	0.4	1970	4.943	4.943	-0.667	0.0	0.4
1860	4.971	4.971	-0.639	0.0	0.4	1980	4.940	4.940	-0.670	0.0	0.4
1870	4.969	4.969	-0.641	0.0	0.4	1990	4.937	4.937	-0.673	0.0	0.4
1880	4.966	4.966	-0.644	0.0	0.4	2000	4.934	4.935	-0.676	0.0	0.3

GTA Civils Ltd						Page 175					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 14.000 US/MH SWMH14.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.961	4.912	-0.599	0.0	0.0	230	4.982	4.966	-0.578	0.0	0.8
20	4.962	4.916	-0.598	0.0	0.1	240	4.985	4.972	-0.575	0.0	0.9
30	4.962	4.919	-0.598	0.0	0.1	250	4.989	4.976	-0.571	0.0	1.0
40	4.963	4.921	-0.597	0.0	0.2	260	4.993	4.981	-0.567	0.0	1.0
50	4.963	4.922	-0.597	0.0	0.2	270	4.999	4.990	-0.561	0.0	1.1
60	4.964	4.923	-0.596	0.0	0.2	280	5.008	5.001	-0.552	0.0	1.2
70	4.964	4.924	-0.596	0.0	0.2	290	5.022	5.018	-0.538	0.0	1.2
80	4.964	4.924	-0.596	0.0	0.2	300	5.038	5.037	-0.522	0.0	1.2
90	4.964	4.924	-0.596	0.0	0.2	310	5.058	5.057	-0.502	0.0	1.2
100	4.964	4.924	-0.596	0.0	0.2	320	5.078	5.078	-0.482	0.0	1.2
110	4.964	4.924	-0.596	0.0	0.2	330	5.099	5.098	-0.461	0.0	1.1
120	4.964	4.924	-0.596	0.0	0.2	340	5.117	5.117	-0.443	0.0	1.1
130	4.964	4.925	-0.596	0.0	0.3	350	5.134	5.134	-0.426	0.0	1.0
140	4.965	4.927	-0.595	0.0	0.3	360	5.149	5.149	-0.411	0.0	0.9
150	4.965	4.929	-0.595	0.0	0.3	370	5.162	5.163	-0.398	0.0	0.8
160	4.966	4.933	-0.594	0.0	0.3	380	5.174	5.174	-0.386	0.0	0.8
170	4.967	4.936	-0.593	0.0	0.4	390	5.185	5.185	-0.375	0.0	0.7
180	4.969	4.941	-0.591	0.0	0.4	400	5.195	5.195	-0.365	0.0	0.6
190	4.971	4.946	-0.589	0.0	0.5	410	5.204	5.204	-0.356	0.0	0.5
200	4.973	4.950	-0.587	0.0	0.6	420	5.211	5.211	-0.349	0.0	0.5
210	4.975	4.954	-0.585	0.0	0.6	430	5.217	5.217	-0.343	0.0	0.4
220	4.978	4.960	-0.582	0.0	0.7	440	5.223	5.223	-0.337	0.0	0.4
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GTA Civils Ltd						Page 176					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 14.000 US/MH SWMH14.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.227	5.227	-0.333	0.0	0.3	670	5.239	5.240	-0.321	0.0	0.0
460	5.231	5.231	-0.329	0.0	0.3	680	5.238	5.238	-0.322	0.0	0.0
470	5.234	5.234	-0.326	0.0	0.3	690	5.236	5.236	-0.324	0.0	0.0
480	5.237	5.237	-0.323	0.0	0.2	700	5.233	5.234	-0.327	0.0	0.0
490	5.239	5.239	-0.321	0.0	0.2	710	5.231	5.231	-0.329	0.0	0.0
500	5.241	5.241	-0.319	0.0	0.2	720	5.230	5.230	-0.330	0.0	0.0
510	5.243	5.243	-0.317	0.0	0.2	730	5.227	5.227	-0.333	0.0	0.0
520	5.245	5.245	-0.315	0.0	0.2	740	5.225	5.225	-0.335	0.0	0.0
530	5.246	5.246	-0.314	0.0	0.2	750	5.223	5.223	-0.337	0.0	0.0
540	5.248	5.248	-0.312	0.0	0.2	760	5.221	5.221	-0.339	0.0	0.0
550	5.250	5.250	-0.310	0.0	0.2	770	5.219	5.219	-0.341	0.0	0.0
560	5.251	5.251	-0.309	0.0	0.2	780	5.217	5.217	-0.343	0.0	0.0
570	5.252	5.253	-0.308	0.0	0.2	790	5.215	5.215	-0.345	0.0	0.0
580	5.253	5.254	-0.307	0.0	0.2	800	5.213	5.213	-0.347	0.0	0.0
590	5.254	5.254	-0.306	0.0	0.1	810	5.211	5.211	-0.349	0.0	0.0
600	5.253	5.253	-0.307	0.0	0.0	820	5.209	5.209	-0.351	0.0	0.0
610	5.251	5.251	-0.309	0.0	0.0	830	5.207	5.207	-0.353	0.0	0.0
620	5.249	5.249	-0.311	0.0	0.0	840	5.205	5.205	-0.355	0.0	0.0
630	5.248	5.248	-0.312	0.0	0.0	850	5.203	5.203	-0.357	0.0	0.0
640	5.246	5.246	-0.314	0.0	0.0	860	5.201	5.201	-0.359	0.0	0.0
650	5.244	5.244	-0.316	0.0	0.0	870	5.199	5.199	-0.361	0.0	0.0
660	5.242	5.242	-0.318	0.0	0.0	880	5.197	5.197	-0.363	0.0	0.0
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GTA Civils Ltd						Page 177					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 14.000 US/MH SWMH14.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.195	5.195	-0.365	0.0	0.0	1110	5.148	5.148	-0.412	0.0	0.0
900	5.193	5.193	-0.367	0.0	0.0	1120	5.146	5.146	-0.414	0.0	0.0
910	5.191	5.191	-0.369	0.0	0.0	1130	5.144	5.144	-0.416	0.0	0.0
920	5.189	5.189	-0.371	0.0	0.0	1140	5.142	5.142	-0.418	0.0	0.0
930	5.187	5.187	-0.373	0.0	0.0	1150	5.140	5.140	-0.420	0.0	0.0
940	5.185	5.185	-0.375	0.0	0.0	1160	5.138	5.138	-0.422	0.0	0.0
950	5.182	5.183	-0.378	0.0	0.0	1170	5.135	5.135	-0.425	0.0	0.0
960	5.180	5.180	-0.380	0.0	0.0	1180	5.133	5.133	-0.427	0.0	0.0
970	5.178	5.178	-0.382	0.0	0.0	1190	5.131	5.131	-0.429	0.0	0.0
980	5.176	5.176	-0.384	0.0	0.0	1200	5.129	5.129	-0.431	0.0	0.0
990	5.174	5.174	-0.386	0.0	0.0	1210	5.126	5.127	-0.434	0.0	0.0
1000	5.172	5.172	-0.388	0.0	0.0	1220	5.124	5.124	-0.436	0.0	0.0
1010	5.170	5.170	-0.390	0.0	0.0	1230	5.122	5.122	-0.438	0.0	0.0
1020	5.168	5.168	-0.392	0.0	0.0	1240	5.120	5.120	-0.440	0.0	0.0
1030	5.166	5.166	-0.394	0.0	0.0	1250	5.118	5.118	-0.442	0.0	0.0
1040	5.163	5.163	-0.397	0.0	0.0	1260	5.115	5.115	-0.445	0.0	0.0
1050	5.161	5.161	-0.399	0.0	0.0	1270	5.113	5.113	-0.447	0.0	0.0
1060	5.159	5.159	-0.401	0.0	0.0	1280	5.111	5.111	-0.449	0.0	0.0
1070	5.157	5.157	-0.403	0.0	0.0	1290	5.109	5.109	-0.451	0.0	0.0
1080	5.155	5.155	-0.405	0.0	0.0	1300	5.106	5.107	-0.454	0.0	0.0
1090	5.153	5.153	-0.407	0.0	0.0	1310	5.104	5.104	-0.456	0.0	0.0
1100	5.151	5.151	-0.409	0.0	0.0	1320	5.102	5.102	-0.458	0.0	0.0
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GTA Civils Ltd		Page 179
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 14.000 US/MH SWMH14.1 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.566	0.0	0.0	1890	4.964	4.964	-0.596	0.0	0.0
1780	4.992	4.992	-0.568	0.0	0.0	1900	4.961	4.961	-0.599	0.0	0.0
1790	4.989	4.989	-0.571	0.0	0.0	1910	4.960	4.958	-0.600	0.0	0.0
1800	4.987	4.987	-0.573	0.0	0.0	1920	4.960	4.956	-0.600	0.0	0.0
1810	4.984	4.984	-0.576	0.0	0.0	1930	4.960	4.953	-0.600	0.0	0.0
1820	4.981	4.981	-0.579	0.0	0.0	1940	4.960	4.951	-0.600	0.0	0.0
1830	4.979	4.979	-0.581	0.0	0.0	1950	4.960	4.948	-0.600	0.0	0.0
1840	4.976	4.976	-0.584	0.0	0.0	1960	4.960	4.945	-0.600	0.0	0.0
1850	4.974	4.974	-0.586	0.0	0.0	1970	4.960	4.943	-0.600	0.0	0.0
1860	4.971	4.971	-0.589	0.0	0.0	1980	4.960	4.940	-0.600	0.0	0.0
1870	4.969	4.969	-0.591	0.0	0.0	1990	4.960	4.937	-0.600	0.0	0.0
1880	4.966	4.966	-0.594	0.0	0.0	2000	4.960	4.934	-0.600	0.0	0.0

GTA Civils Ltd						Page 180					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 14.001 US/MH SWMH14.2 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.912	4.866	-0.598	0.0	0.1	230	4.966	4.943	-0.544	0.0	2.5
20	4.916	4.875	-0.594	0.0	0.3	240	4.972	4.951	-0.538	0.0	2.8
30	4.919	4.881	-0.591	0.0	0.5	250	4.976	4.959	-0.534	0.0	3.1
40	4.921	4.886	-0.589	0.0	0.6	260	4.981	4.968	-0.529	0.0	3.3
50	4.922	4.889	-0.588	0.0	0.7	270	4.990	4.980	-0.520	0.0	3.5
60	4.923	4.890	-0.587	0.0	0.7	280	5.001	4.996	-0.509	0.0	3.7
70	4.924	4.891	-0.586	0.0	0.7	290	5.018	5.015	-0.492	0.0	3.8
80	4.924	4.891	-0.586	0.0	0.7	300	5.037	5.035	-0.473	0.0	3.7
90	4.924	4.891	-0.586	0.0	0.7	310	5.057	5.056	-0.453	0.0	3.7
100	4.924	4.891	-0.586	0.0	0.7	320	5.078	5.077	-0.432	0.0	3.5
110	4.924	4.892	-0.586	0.0	0.7	330	5.098	5.098	-0.412	0.0	3.4
120	4.924	4.893	-0.586	0.0	0.8	340	5.117	5.116	-0.393	0.0	3.2
130	4.925	4.895	-0.585	0.0	0.8	350	5.134	5.133	-0.376	0.0	2.9
140	4.927	4.897	-0.583	0.0	0.9	360	5.149	5.149	-0.361	0.0	2.7
150	4.929	4.901	-0.581	0.0	1.0	370	5.163	5.162	-0.347	0.0	2.5
160	4.933	4.906	-0.577	0.0	1.1	380	5.174	5.174	-0.336	0.0	2.3
170	4.936	4.912	-0.574	0.0	1.2	390	5.185	5.185	-0.325	0.0	2.0
180	4.941	4.919	-0.569	0.0	1.4	400	5.195	5.195	-0.315	0.0	1.8
190	4.946	4.923	-0.564	0.0	1.6	410	5.204	5.203	-0.306	0.0	1.6
200	4.950	4.926	-0.560	0.0	1.8	420	5.211	5.211	-0.299	0.0	1.4
210	4.954	4.930	-0.556	0.0	2.0	430	5.217	5.217	-0.293	0.0	1.2
220	4.960	4.936	-0.550	0.0	2.3	440	5.223	5.223	-0.287	0.0	1.1
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GTA Civils Ltd						Page 181					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 14.001 US/MH SWMH14.2 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.227	5.227	-0.283	0.0	1.0	670	5.240	5.240	-0.270	0.0	0.1
460	5.231	5.231	-0.279	0.0	0.9	680	5.238	5.238	-0.272	0.0	0.1
470	5.234	5.234	-0.276	0.0	0.8	690	5.236	5.236	-0.274	0.0	0.1
480	5.237	5.237	-0.273	0.0	0.7	700	5.234	5.234	-0.276	0.0	0.1
490	5.239	5.239	-0.271	0.0	0.7	710	5.231	5.232	-0.279	0.0	0.1
500	5.241	5.241	-0.269	0.0	0.7	720	5.230	5.230	-0.280	0.0	0.1
510	5.243	5.243	-0.267	0.0	0.7	730	5.227	5.227	-0.283	0.0	0.1
520	5.245	5.245	-0.265	0.0	0.7	740	5.225	5.225	-0.285	0.0	0.1
530	5.246	5.246	-0.264	0.0	0.7	750	5.223	5.223	-0.287	0.0	0.1
540	5.248	5.248	-0.262	0.0	0.7	760	5.221	5.221	-0.289	0.0	0.1
550	5.250	5.250	-0.260	0.0	0.7	770	5.219	5.220	-0.291	0.0	0.1
560	5.251	5.251	-0.259	0.0	0.6	780	5.217	5.217	-0.293	0.0	0.1
570	5.253	5.253	-0.257	0.0	0.6	790	5.215	5.215	-0.295	0.0	0.1
580	5.254	5.254	-0.256	0.0	0.5	800	5.213	5.213	-0.297	0.0	0.1
590	5.254	5.254	-0.256	0.0	0.3	810	5.211	5.211	-0.299	0.0	0.1
600	5.253	5.253	-0.257	0.0	0.2	820	5.209	5.209	-0.301	0.0	0.1
610	5.251	5.251	-0.259	0.0	0.1	830	5.207	5.207	-0.303	0.0	0.1
620	5.249	5.249	-0.261	0.0	0.1	840	5.205	5.205	-0.305	0.0	0.1
630	5.248	5.248	-0.262	0.0	0.1	850	5.203	5.203	-0.307	0.0	0.1
640	5.246	5.246	-0.264	0.0	0.1	860	5.201	5.201	-0.309	0.0	0.1
650	5.244	5.244	-0.266	0.0	0.1	870	5.199	5.199	-0.311	0.0	0.1
660	5.242	5.242	-0.268	0.0	0.1	880	5.197	5.197	-0.313	0.0	0.1
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GTA Civils Ltd						Page 183					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 14.001 US/MH SWMH14.2 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.100	5.100	-0.410	0.0	0.1	1550	5.048	5.048	-0.462	0.0	0.1
1340	5.097	5.097	-0.413	0.0	0.1	1560	5.046	5.046	-0.464	0.0	0.1
1350	5.095	5.095	-0.415	0.0	0.1	1570	5.044	5.044	-0.466	0.0	0.1
1360	5.093	5.093	-0.417	0.0	0.1	1580	5.041	5.041	-0.469	0.0	0.1
1370	5.090	5.090	-0.420	0.0	0.1	1590	5.039	5.039	-0.471	0.0	0.1
1380	5.088	5.088	-0.422	0.0	0.1	1600	5.036	5.036	-0.474	0.0	0.1
1390	5.086	5.086	-0.424	0.0	0.1	1610	5.034	5.034	-0.476	0.0	0.1
1400	5.083	5.084	-0.427	0.0	0.1	1620	5.031	5.031	-0.479	0.0	0.1
1410	5.081	5.081	-0.429	0.0	0.1	1630	5.029	5.029	-0.481	0.0	0.1
1420	5.079	5.079	-0.431	0.0	0.1	1640	5.027	5.027	-0.483	0.0	0.1
1430	5.077	5.077	-0.433	0.0	0.1	1650	5.024	5.024	-0.486	0.0	0.1
1440	5.074	5.074	-0.436	0.0	0.1	1660	5.022	5.022	-0.488	0.0	0.1
1450	5.072	5.072	-0.438	0.0	0.1	1670	5.019	5.019	-0.491	0.0	0.1
1460	5.070	5.070	-0.440	0.0	0.1	1680	5.017	5.017	-0.493	0.0	0.0
1470	5.067	5.067	-0.443	0.0	0.1	1690	5.014	5.014	-0.496	0.0	0.0
1480	5.065	5.065	-0.445	0.0	0.1	1700	5.012	5.012	-0.498	0.0	0.0
1490	5.063	5.063	-0.447	0.0	0.1	1710	5.009	5.009	-0.501	0.0	0.0
1500	5.060	5.060	-0.450	0.0	0.1	1720	5.007	5.007	-0.503	0.0	0.0
1510	5.058	5.058	-0.452	0.0	0.1	1730	5.004	5.004	-0.506	0.0	0.0
1520	5.056	5.056	-0.454	0.0	0.1	1740	5.002	5.002	-0.508	0.0	0.0
1530	5.053	5.053	-0.457	0.0	0.1	1750	4.999	4.999	-0.511	0.0	0.0
1540	5.051	5.051	-0.459	0.0	0.1	1760	4.997	4.997	-0.513	0.0	0.0
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GTA Civils Ltd		Page 184
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 14.001 US/MH SWMH14.2 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.516	0.0	0.0	1890	4.964	4.964	-0.546	0.0	0.0
1780	4.992	4.992	-0.518	0.0	0.0	1900	4.961	4.961	-0.549	0.0	0.0
1790	4.989	4.989	-0.521	0.0	0.0	1910	4.958	4.958	-0.552	0.0	0.0
1800	4.987	4.987	-0.523	0.0	0.0	1920	4.956	4.956	-0.554	0.0	0.0
1810	4.984	4.984	-0.526	0.0	0.0	1930	4.953	4.953	-0.557	0.0	0.0
1820	4.981	4.981	-0.529	0.0	0.0	1940	4.951	4.951	-0.559	0.0	0.0
1830	4.979	4.979	-0.531	0.0	0.0	1950	4.948	4.948	-0.562	0.0	0.0
1840	4.976	4.976	-0.534	0.0	0.0	1960	4.945	4.945	-0.565	0.0	0.0
1850	4.974	4.974	-0.536	0.0	0.0	1970	4.943	4.943	-0.567	0.0	0.0
1860	4.971	4.971	-0.539	0.0	0.0	1980	4.940	4.940	-0.570	0.0	0.0
1870	4.969	4.969	-0.541	0.0	0.0	1990	4.937	4.937	-0.573	0.0	0.0
1880	4.966	4.966	-0.544	0.0	0.0	2000	4.934	4.934	-0.576	0.0	0.0

GTA Civils Ltd						Page 187					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 15.000 US/MH SWMH15.1 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
890	5.280	5.220	-0.300	0.0	0.0	1110	5.280	5.220	-0.300	0.0	0.0
900	5.280	5.220	-0.300	0.0	0.0	1120	5.280	5.220	-0.300	0.0	0.0
910	5.280	5.220	-0.300	0.0	0.0	1130	5.280	5.220	-0.300	0.0	0.0
920	5.280	5.220	-0.300	0.0	0.0	1140	5.280	5.220	-0.300	0.0	0.0
930	5.280	5.220	-0.300	0.0	0.0	1150	5.280	5.220	-0.300	0.0	0.0
940	5.280	5.220	-0.300	0.0	0.0	1160	5.280	5.220	-0.300	0.0	0.0
950	5.280	5.220	-0.300	0.0	0.0	1170	5.280	5.220	-0.300	0.0	0.0
960	5.280	5.220	-0.300	0.0	0.0	1180	5.280	5.220	-0.300	0.0	0.0
970	5.280	5.220	-0.300	0.0	0.0	1190	5.280	5.220	-0.300	0.0	0.0
980	5.280	5.220	-0.300	0.0	0.0	1200	5.280	5.220	-0.300	0.0	0.0
990	5.280	5.220	-0.300	0.0	0.0	1210	5.280	5.220	-0.300	0.0	0.0
1000	5.280	5.220	-0.300	0.0	0.0	1220	5.280	5.220	-0.300	0.0	0.0
1010	5.280	5.220	-0.300	0.0	0.0	1230	5.280	5.220	-0.300	0.0	0.0
1020	5.280	5.220	-0.300	0.0	0.0	1240	5.280	5.220	-0.300	0.0	0.0
1030	5.280	5.220	-0.300	0.0	0.0	1250	5.280	5.220	-0.300	0.0	0.0
1040	5.280	5.220	-0.300	0.0	0.0	1260	5.280	5.220	-0.300	0.0	0.0
1050	5.280	5.220	-0.300	0.0	0.0	1270	5.280	5.220	-0.300	0.0	0.0
1060	5.280	5.220	-0.300	0.0	0.0	1280	5.280	5.220	-0.300	0.0	0.0
1070	5.280	5.220	-0.300	0.0	0.0	1290	5.280	5.220	-0.300	0.0	0.0
1080	5.280	5.220	-0.300	0.0	0.0	1300	5.280	5.220	-0.300	0.0	0.0
1090	5.280	5.220	-0.300	0.0	0.0	1310	5.280	5.220	-0.300	0.0	0.0
1100	5.280	5.220	-0.300	0.0	0.0	1320	5.280	5.220	-0.300	0.0	0.0
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GTA Civils Ltd		Page 189
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 15.000 US/MH SWMH15.1 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.280	5.220	-0.300	0.0	0.0	1890	5.280	5.220	-0.300	0.0	0.0
1780	5.280	5.220	-0.300	0.0	0.0	1900	5.280	5.220	-0.300	0.0	0.0
1790	5.280	5.220	-0.300	0.0	0.0	1910	5.280	5.220	-0.300	0.0	0.0
1800	5.280	5.220	-0.300	0.0	0.0	1920	5.280	5.220	-0.300	0.0	0.0
1810	5.280	5.220	-0.300	0.0	0.0	1930	5.280	5.220	-0.300	0.0	0.0
1820	5.280	5.220	-0.300	0.0	0.0	1940	5.280	5.220	-0.300	0.0	0.0
1830	5.280	5.220	-0.300	0.0	0.0	1950	5.280	5.220	-0.300	0.0	0.0
1840	5.280	5.220	-0.300	0.0	0.0	1960	5.280	5.220	-0.300	0.0	0.0
1850	5.280	5.220	-0.300	0.0	0.0	1970	5.280	5.220	-0.300	0.0	0.0
1860	5.280	5.220	-0.300	0.0	0.0	1980	5.280	5.220	-0.300	0.0	0.0
1870	5.280	5.220	-0.300	0.0	0.0	1990	5.280	5.220	-0.300	0.0	0.0
1880	5.280	5.220	-0.300	0.0	0.0	2000	5.280	5.220	-0.300	0.0	0.0

GTA Civils Ltd						Page 191					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 15.001 US/MH SWMH15.2 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.251	5.227	-0.269	0.0	1.1	670	5.240	5.240	-0.280	0.0	0.0
460	5.251	5.231	-0.269	0.0	1.0	680	5.238	5.238	-0.282	0.0	0.0
470	5.251	5.234	-0.269	0.0	0.9	690	5.236	5.236	-0.284	0.0	0.0
480	5.251	5.237	-0.269	0.0	0.8	700	5.234	5.234	-0.286	0.0	0.0
490	5.251	5.239	-0.269	0.0	0.8	710	5.232	5.232	-0.288	0.0	0.0
500	5.252	5.241	-0.268	0.0	0.7	720	5.230	5.230	-0.290	0.0	0.0
510	5.252	5.243	-0.268	0.0	0.7	730	5.228	5.227	-0.292	0.0	0.0
520	5.253	5.245	-0.267	0.0	0.7	740	5.226	5.225	-0.294	0.0	0.0
530	5.254	5.246	-0.266	0.0	0.7	750	5.224	5.223	-0.296	0.0	0.0
540	5.254	5.248	-0.266	0.0	0.7	760	5.222	5.221	-0.298	0.0	0.0
550	5.255	5.250	-0.265	0.0	0.7	770	5.221	5.220	-0.299	0.0	0.0
560	5.256	5.251	-0.264	0.0	0.7	780	5.220	5.217	-0.300	0.0	0.0
570	5.256	5.253	-0.264	0.0	0.6	790	5.220	5.215	-0.300	0.0	0.0
580	5.256	5.254	-0.264	0.0	0.5	800	5.220	5.213	-0.300	0.0	0.0
590	5.255	5.254	-0.265	0.0	0.3	810	5.220	5.211	-0.300	0.0	0.0
600	5.253	5.253	-0.267	0.0	0.1	820	5.220	5.209	-0.300	0.0	0.0
610	5.251	5.251	-0.269	0.0	0.0	830	5.220	5.207	-0.300	0.0	0.0
620	5.249	5.249	-0.271	0.0	0.0	840	5.220	5.205	-0.300	0.0	0.0
630	5.248	5.248	-0.272	0.0	0.0	850	5.220	5.203	-0.300	0.0	0.0
640	5.246	5.246	-0.274	0.0	0.0	860	5.220	5.201	-0.300	0.0	0.0
650	5.244	5.244	-0.276	0.0	0.0	870	5.220	5.199	-0.300	0.0	0.0
660	5.242	5.242	-0.278	0.0	0.0	880	5.220	5.197	-0.300	0.0	0.0
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GTA Civils Ltd		Page 194
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 15.001 US/MH SWMH15.2 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	5.220	4.994	-0.300	0.0	0.0	1890	5.220	4.964	-0.300	0.0	0.0
1780	5.220	4.992	-0.300	0.0	0.0	1900	5.220	4.961	-0.300	0.0	0.0
1790	5.220	4.989	-0.300	0.0	0.0	1910	5.220	4.958	-0.300	0.0	0.0
1800	5.220	4.987	-0.300	0.0	0.0	1920	5.220	4.956	-0.300	0.0	0.0
1810	5.220	4.984	-0.300	0.0	0.0	1930	5.220	4.953	-0.300	0.0	0.0
1820	5.220	4.981	-0.300	0.0	0.0	1940	5.220	4.951	-0.300	0.0	0.0
1830	5.220	4.979	-0.300	0.0	0.0	1950	5.220	4.948	-0.300	0.0	0.0
1840	5.220	4.976	-0.300	0.0	0.0	1960	5.220	4.945	-0.300	0.0	0.0
1850	5.220	4.974	-0.300	0.0	0.0	1970	5.220	4.943	-0.300	0.0	0.0
1860	5.220	4.971	-0.300	0.0	0.0	1980	5.220	4.940	-0.300	0.0	0.0
1870	5.220	4.969	-0.300	0.0	0.0	1990	5.220	4.937	-0.300	0.0	0.0
1880	5.220	4.966	-0.300	0.0	0.0	2000	5.220	4.934	-0.300	0.0	0.0

GTA Civils Ltd						Page 195					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB					10768 - Sefter Road Simulation Network 1 Revision E						
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX					Designed by DT Checked by MR						
XP Solutions					Network 2020.1						
<u>Flows and Levels for Pipe 14.002 US/MH SWCP14.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.866	4.842	-0.594	0.0	0.2	230	4.943	4.921	-0.517	0.0	5.6
20	4.875	4.845	-0.585	0.0	0.6	240	4.951	4.932	-0.509	0.0	6.1
30	4.881	4.848	-0.579	0.0	1.0	250	4.959	4.941	-0.501	0.0	6.8
40	4.886	4.850	-0.574	0.0	1.3	260	4.968	4.953	-0.492	0.0	7.3
50	4.889	4.851	-0.571	0.0	1.5	270	4.980	4.969	-0.480	0.0	7.7
60	4.890	4.852	-0.570	0.0	1.6	280	4.996	4.988	-0.464	0.0	8.1
70	4.891	4.853	-0.569	0.0	1.6	290	5.015	5.010	-0.445	0.0	8.3
80	4.891	4.854	-0.569	0.0	1.6	300	5.035	5.032	-0.425	0.0	8.3
90	4.891	4.854	-0.569	0.0	1.6	310	5.056	5.054	-0.404	0.0	8.2
100	4.891	4.854	-0.569	0.0	1.6	320	5.077	5.076	-0.383	0.0	7.9
110	4.892	4.855	-0.568	0.0	1.6	330	5.098	5.097	-0.362	0.0	7.6
120	4.893	4.856	-0.567	0.0	1.7	340	5.116	5.116	-0.344	0.0	7.1
130	4.895	4.858	-0.565	0.0	1.8	350	5.133	5.133	-0.327	0.0	6.7
140	4.897	4.860	-0.563	0.0	1.9	360	5.149	5.148	-0.311	0.0	6.2
150	4.901	4.862	-0.559	0.0	2.1	370	5.162	5.161	-0.298	0.0	5.6
160	4.906	4.866	-0.554	0.0	2.3	380	5.174	5.174	-0.286	0.0	5.1
170	4.912	4.870	-0.548	0.0	2.6	390	5.185	5.185	-0.275	0.0	4.6
180	4.919	4.875	-0.541	0.0	3.0	400	5.195	5.194	-0.265	0.0	4.0
190	4.923	4.882	-0.537	0.0	3.5	410	5.203	5.203	-0.257	0.0	3.6
200	4.926	4.890	-0.534	0.0	3.9	420	5.211	5.210	-0.249	0.0	3.2
210	4.930	4.898	-0.530	0.0	4.4	430	5.217	5.217	-0.243	0.0	2.8
220	4.936	4.909	-0.524	0.0	5.0	440	5.223	5.222	-0.237	0.0	2.5
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GTA Civils Ltd						Page 198					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 14.002 US/MH SWCP14.3 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.100	5.100	-0.360	0.0	0.1	1550	5.048	5.048	-0.412	0.0	0.1
1340	5.097	5.097	-0.363	0.0	0.1	1560	5.046	5.046	-0.414	0.0	0.1
1350	5.095	5.095	-0.365	0.0	0.1	1570	5.044	5.044	-0.416	0.0	0.1
1360	5.093	5.093	-0.367	0.0	0.1	1580	5.041	5.041	-0.419	0.0	0.1
1370	5.090	5.090	-0.370	0.0	0.1	1590	5.039	5.039	-0.421	0.0	0.1
1380	5.088	5.088	-0.372	0.0	0.1	1600	5.036	5.036	-0.424	0.0	0.1
1390	5.086	5.086	-0.374	0.0	0.1	1610	5.034	5.034	-0.426	0.0	0.1
1400	5.084	5.084	-0.376	0.0	0.1	1620	5.031	5.031	-0.429	0.0	0.1
1410	5.081	5.081	-0.379	0.0	0.1	1630	5.029	5.029	-0.431	0.0	0.1
1420	5.079	5.079	-0.381	0.0	0.1	1640	5.027	5.027	-0.433	0.0	0.1
1430	5.077	5.077	-0.383	0.0	0.1	1650	5.024	5.024	-0.436	0.0	0.1
1440	5.074	5.074	-0.386	0.0	0.1	1660	5.022	5.022	-0.438	0.0	0.1
1450	5.072	5.072	-0.388	0.0	0.1	1670	5.019	5.019	-0.441	0.0	0.1
1460	5.070	5.070	-0.390	0.0	0.1	1680	5.017	5.017	-0.443	0.0	0.1
1470	5.067	5.067	-0.393	0.0	0.1	1690	5.014	5.014	-0.446	0.0	0.1
1480	5.065	5.065	-0.395	0.0	0.1	1700	5.012	5.012	-0.448	0.0	0.1
1490	5.063	5.063	-0.397	0.0	0.1	1710	5.009	5.009	-0.451	0.0	0.1
1500	5.060	5.060	-0.400	0.0	0.1	1720	5.007	5.007	-0.453	0.0	0.1
1510	5.058	5.058	-0.402	0.0	0.1	1730	5.004	5.004	-0.456	0.0	0.1
1520	5.056	5.056	-0.404	0.0	0.1	1740	5.002	5.002	-0.458	0.0	0.1
1530	5.053	5.053	-0.407	0.0	0.1	1750	4.999	4.999	-0.461	0.0	0.1
1540	5.051	5.051	-0.409	0.0	0.1	1760	4.997	4.997	-0.463	0.0	0.1
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GTA Civils Ltd		Page 199
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 14.002 US/MH SWCP14.3 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.466	0.0	0.1	1890	4.964	4.964	-0.496	0.0	0.1
1780	4.992	4.992	-0.468	0.0	0.1	1900	4.961	4.961	-0.499	0.0	0.1
1790	4.989	4.989	-0.471	0.0	0.1	1910	4.958	4.958	-0.502	0.0	0.1
1800	4.987	4.987	-0.473	0.0	0.1	1920	4.956	4.956	-0.504	0.0	0.0
1810	4.984	4.984	-0.476	0.0	0.1	1930	4.953	4.953	-0.507	0.0	0.0
1820	4.981	4.981	-0.479	0.0	0.1	1940	4.951	4.951	-0.509	0.0	0.0
1830	4.979	4.979	-0.481	0.0	0.1	1950	4.948	4.948	-0.512	0.0	0.0
1840	4.976	4.976	-0.484	0.0	0.1	1960	4.945	4.945	-0.515	0.0	0.0
1850	4.974	4.974	-0.486	0.0	0.1	1970	4.943	4.943	-0.517	0.0	0.0
1860	4.971	4.971	-0.489	0.0	0.1	1980	4.940	4.940	-0.520	0.0	0.0
1870	4.969	4.969	-0.491	0.0	0.1	1990	4.937	4.937	-0.523	0.0	0.0
1880	4.966	4.966	-0.494	0.0	0.1	2000	4.934	4.934	-0.526	0.0	0.0

GTA Civils Ltd						Page 200					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 14.003 US/MH Headwall 9 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.842	4.651	-0.898	0.0	0.1	230	4.921	4.870	-0.819	0.0	5.3
20	4.845	4.653	-0.895	0.0	0.4	240	4.932	4.888	-0.808	0.0	5.9
30	4.848	4.659	-0.892	0.0	0.9	250	4.941	4.909	-0.799	0.0	6.5
40	4.850	4.667	-0.890	0.0	1.2	260	4.953	4.932	-0.787	0.0	7.1
50	4.851	4.677	-0.889	0.0	1.4	270	4.969	4.956	-0.771	0.0	7.4
60	4.852	4.687	-0.888	0.0	1.5	280	4.988	4.980	-0.752	0.0	7.8
70	4.853	4.697	-0.887	0.0	1.6	290	5.010	5.004	-0.730	0.0	8.0
80	4.854	4.707	-0.886	0.0	1.6	300	5.032	5.029	-0.708	0.0	8.1
90	4.854	4.716	-0.886	0.0	1.6	310	5.054	5.052	-0.686	0.0	8.0
100	4.854	4.726	-0.886	0.0	1.6	320	5.076	5.075	-0.664	0.0	7.8
110	4.855	4.735	-0.885	0.0	1.6	330	5.097	5.095	-0.643	0.0	7.4
120	4.856	4.743	-0.884	0.0	1.7	340	5.116	5.114	-0.624	0.0	7.0
130	4.858	4.752	-0.882	0.0	1.7	350	5.133	5.131	-0.607	0.0	6.6
140	4.860	4.759	-0.880	0.0	1.8	360	5.148	5.146	-0.592	0.0	6.1
150	4.862	4.767	-0.878	0.0	2.0	370	5.161	5.160	-0.579	0.0	5.6
160	4.866	4.775	-0.874	0.0	2.2	380	5.174	5.172	-0.566	0.0	5.1
170	4.870	4.785	-0.870	0.0	2.5	390	5.185	5.184	-0.555	0.0	4.6
180	4.875	4.795	-0.865	0.0	2.8	400	5.194	5.194	-0.546	0.0	4.1
190	4.882	4.807	-0.858	0.0	3.2	410	5.203	5.202	-0.537	0.0	3.6
200	4.890	4.821	-0.850	0.0	3.7	420	5.210	5.210	-0.530	0.0	3.2
210	4.898	4.837	-0.842	0.0	4.2	430	5.217	5.216	-0.523	0.0	2.8
220	4.909	4.853	-0.831	0.0	4.8	440	5.222	5.222	-0.518	0.0	2.5
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GTA Civils Ltd						Page 201					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 14.003 US/MH Headwall 9 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
450	5.227	5.227	-0.513	0.0	2.2	670	5.240	5.240	-0.500	0.0	0.2
460	5.231	5.231	-0.509	0.0	2.0	680	5.238	5.238	-0.502	0.0	0.2
470	5.234	5.234	-0.506	0.0	1.8	690	5.236	5.236	-0.504	0.0	0.2
480	5.237	5.237	-0.503	0.0	1.7	700	5.234	5.234	-0.506	0.0	0.2
490	5.239	5.239	-0.501	0.0	1.6	710	5.232	5.232	-0.508	0.0	0.2
500	5.241	5.241	-0.499	0.0	1.5	720	5.230	5.230	-0.510	0.0	0.2
510	5.243	5.243	-0.497	0.0	1.5	730	5.228	5.228	-0.512	0.0	0.1
520	5.245	5.244	-0.495	0.0	1.5	740	5.226	5.226	-0.514	0.0	0.2
530	5.246	5.246	-0.494	0.0	1.5	750	5.224	5.224	-0.516	0.0	0.2
540	5.248	5.248	-0.492	0.0	1.5	760	5.222	5.222	-0.518	0.0	0.2
550	5.250	5.250	-0.490	0.0	1.5	770	5.220	5.220	-0.520	0.0	0.2
560	5.251	5.251	-0.489	0.0	1.4	780	5.217	5.218	-0.523	0.0	0.2
570	5.253	5.253	-0.487	0.0	1.3	790	5.216	5.216	-0.524	0.0	0.1
580	5.254	5.253	-0.486	0.0	1.1	800	5.214	5.214	-0.526	0.0	0.2
590	5.254	5.254	-0.486	0.0	0.9	810	5.211	5.212	-0.529	0.0	0.1
600	5.253	5.253	-0.487	0.0	0.5	820	5.209	5.209	-0.531	0.0	0.1
610	5.252	5.252	-0.488	0.0	0.2	830	5.207	5.207	-0.533	0.0	0.1
620	5.250	5.250	-0.490	0.0	0.2	840	5.205	5.205	-0.535	0.0	0.1
630	5.248	5.248	-0.492	0.0	0.2	850	5.203	5.203	-0.537	0.0	0.1
640	5.246	5.246	-0.494	0.0	0.2	860	5.201	5.201	-0.539	0.0	0.1
650	5.244	5.244	-0.496	0.0	0.2	870	5.199	5.199	-0.541	0.0	0.1
660	5.242	5.242	-0.498	0.0	0.2	880	5.197	5.197	-0.543	0.0	0.1
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GTA Civils Ltd		Page 203
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 14.003 US/MH Headwall 9 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1330	5.100	5.100	-0.640	0.0	0.1	1550	5.048	5.049	-0.692	0.0	0.1
1340	5.097	5.097	-0.643	0.0	0.1	1560	5.046	5.046	-0.694	0.0	0.1
1350	5.095	5.095	-0.645	0.0	0.1	1570	5.044	5.044	-0.696	0.0	0.1
1360	5.093	5.093	-0.647	0.0	0.1	1580	5.041	5.041	-0.699	0.0	0.1
1370	5.090	5.091	-0.650	0.0	0.1	1590	5.039	5.039	-0.701	0.0	0.1
1380	5.088	5.088	-0.652	0.0	0.1	1600	5.036	5.036	-0.704	0.0	0.1
1390	5.086	5.086	-0.654	0.0	0.1	1610	5.034	5.034	-0.706	0.0	0.1
1400	5.084	5.084	-0.656	0.0	0.1	1620	5.031	5.032	-0.709	0.0	0.1
1410	5.081	5.081	-0.659	0.0	0.1	1630	5.029	5.029	-0.711	0.0	0.1
1420	5.079	5.079	-0.661	0.0	0.1	1640	5.027	5.027	-0.713	0.0	0.1
1430	5.077	5.077	-0.663	0.0	0.1	1650	5.024	5.024	-0.716	0.0	0.1
1440	5.074	5.074	-0.666	0.0	0.1	1660	5.022	5.022	-0.718	0.0	0.1
1450	5.072	5.072	-0.668	0.0	0.1	1670	5.019	5.019	-0.721	0.0	0.1
1460	5.070	5.070	-0.670	0.0	0.1	1680	5.017	5.017	-0.723	0.0	0.1
1470	5.067	5.067	-0.673	0.0	0.1	1690	5.014	5.014	-0.726	0.0	0.1
1480	5.065	5.065	-0.675	0.0	0.1	1700	5.012	5.012	-0.728	0.0	0.1
1490	5.063	5.063	-0.677	0.0	0.1	1710	5.009	5.009	-0.731	0.0	0.1
1500	5.060	5.060	-0.680	0.0	0.1	1720	5.007	5.007	-0.733	0.0	0.1
1510	5.058	5.058	-0.682	0.0	0.1	1730	5.004	5.004	-0.736	0.0	0.1
1520	5.056	5.056	-0.684	0.0	0.1	1740	5.002	5.002	-0.738	0.0	0.1
1530	5.053	5.053	-0.687	0.0	0.1	1750	4.999	4.999	-0.741	0.0	0.1
1540	5.051	5.051	-0.689	0.0	0.1	1760	4.997	4.997	-0.743	0.0	0.1

GTA Civils Ltd		Page 204
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 14.003 US/MH Headwall 9 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.994	-0.746	0.0	0.1	1890	4.964	4.964	-0.776	0.0	0.1
1780	4.992	4.992	-0.748	0.0	0.1	1900	4.961	4.961	-0.779	0.0	0.1
1790	4.989	4.989	-0.751	0.0	0.1	1910	4.958	4.958	-0.782	0.0	0.1
1800	4.987	4.987	-0.753	0.0	0.1	1920	4.956	4.956	-0.784	0.0	0.1
1810	4.984	4.984	-0.756	0.0	0.1	1930	4.953	4.953	-0.787	0.0	0.1
1820	4.981	4.982	-0.759	0.0	0.1	1940	4.951	4.951	-0.789	0.0	0.1
1830	4.979	4.979	-0.761	0.0	0.1	1950	4.948	4.948	-0.792	0.0	0.1
1840	4.976	4.976	-0.764	0.0	0.1	1960	4.945	4.945	-0.795	0.0	0.1
1850	4.974	4.974	-0.766	0.0	0.1	1970	4.943	4.943	-0.797	0.0	0.1
1860	4.971	4.971	-0.769	0.0	0.1	1980	4.940	4.940	-0.800	0.0	0.1
1870	4.969	4.969	-0.771	0.0	0.1	1990	4.937	4.937	-0.803	0.0	0.1
1880	4.966	4.966	-0.774	0.0	0.1	2000	4.934	4.935	-0.806	0.0	0.1

GTA Civils Ltd						Page 205					
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB				10768 - Sefter Road Simulation Network 1 Revision E							
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX				Designed by DT Checked by MR							
XP Solutions				Network 2020.1							
<u>Flows and Levels for Pipe 1.026 US/MH Headwall 11 (Surface Network 1)</u> <u>600 minute 10 year Winter</u> <u>Average Rainfall Intensity 4.696 mm/hr</u>											
Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
10	4.651	4.639	-0.899	0.0	0.0	230	4.870	4.867	-0.680	0.0	13.5
20	4.653	4.641	-0.897	0.0	0.1	240	4.888	4.886	-0.662	0.0	14.1
30	4.659	4.646	-0.891	0.0	0.3	250	4.909	4.907	-0.641	0.0	14.4
40	4.667	4.653	-0.883	0.0	0.6	260	4.932	4.930	-0.618	0.0	14.7
50	4.677	4.662	-0.873	0.0	1.1	270	4.956	4.955	-0.594	0.0	14.9
60	4.687	4.672	-0.863	0.0	1.6	280	4.980	4.979	-0.570	0.0	15.1
70	4.697	4.683	-0.853	0.0	2.0	290	5.004	5.003	-0.546	0.0	15.2
80	4.707	4.696	-0.843	0.0	2.3	300	5.029	5.028	-0.521	0.0	15.1
90	4.716	4.707	-0.834	0.0	2.5	310	5.052	5.051	-0.498	0.0	15.0
100	4.726	4.717	-0.824	0.0	2.7	320	5.075	5.074	-0.475	0.0	14.9
110	4.735	4.726	-0.815	0.0	3.1	330	5.095	5.094	-0.455	0.0	14.7
120	4.743	4.734	-0.807	0.0	3.6	340	5.114	5.113	-0.436	0.0	14.5
130	4.752	4.743	-0.798	0.0	4.4	350	5.131	5.130	-0.419	0.0	14.3
140	4.759	4.752	-0.791	0.0	5.1	360	5.146	5.145	-0.404	0.0	14.2
150	4.767	4.760	-0.783	0.0	5.6	370	5.160	5.158	-0.390	0.0	14.1
160	4.775	4.769	-0.775	0.0	6.1	380	5.172	5.172	-0.378	0.0	14.2
170	4.785	4.779	-0.765	0.0	6.7	390	5.184	5.183	-0.366	0.0	14.2
180	4.795	4.790	-0.755	0.0	7.6	400	5.194	5.193	-0.356	0.0	14.2
190	4.807	4.802	-0.743	0.0	8.5	410	5.202	5.201	-0.348	0.0	14.1
200	4.821	4.816	-0.729	0.0	9.6	420	5.210	5.209	-0.340	0.0	14.1
210	4.837	4.832	-0.713	0.0	10.9	430	5.216	5.215	-0.334	0.0	14.1
220	4.853	4.849	-0.697	0.0	12.5	440	5.222	5.221	-0.328	0.0	14.1
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GTA Civils Ltd		Page 209
Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768 - Sefter Road Simulation Network 1 Revision E	
Date 03/01/2023 File 10768_Network 1_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions	Network 2020.1	

Flows and Levels for Pipe 1.026 US/MH Headwall 11 (Surface Network 1)
600 minute 10 year Winter
Average Rainfall Intensity 4.696 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)	Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Pipe Flow (l/s)
1770	4.994	4.993	-0.556	0.0	13.6	1890	4.964	4.962	-0.586	0.0	13.4
1780	4.992	4.991	-0.558	0.0	13.6	1900	4.961	4.960	-0.589	0.0	13.4
1790	4.989	4.988	-0.561	0.0	13.5	1910	4.958	4.957	-0.592	0.0	13.3
1800	4.987	4.985	-0.563	0.0	13.5	1920	4.956	4.955	-0.594	0.0	13.3
1810	4.984	4.983	-0.566	0.0	13.5	1930	4.953	4.952	-0.597	0.0	13.3
1820	4.982	4.980	-0.568	0.0	13.5	1940	4.951	4.950	-0.599	0.0	13.2
1830	4.979	4.978	-0.571	0.0	13.5	1950	4.948	4.947	-0.602	0.0	13.2
1840	4.976	4.975	-0.574	0.0	13.5	1960	4.945	4.944	-0.605	0.0	13.2
1850	4.974	4.973	-0.576	0.0	13.5	1970	4.943	4.942	-0.607	0.0	13.1
1860	4.971	4.970	-0.579	0.0	13.5	1980	4.940	4.939	-0.610	0.0	13.1
1870	4.969	4.968	-0.581	0.0	13.4	1990	4.937	4.936	-0.613	0.0	13.1
1880	4.966	4.965	-0.584	0.0	13.4	2000	4.935	4.933	-0.615	0.0	13.1