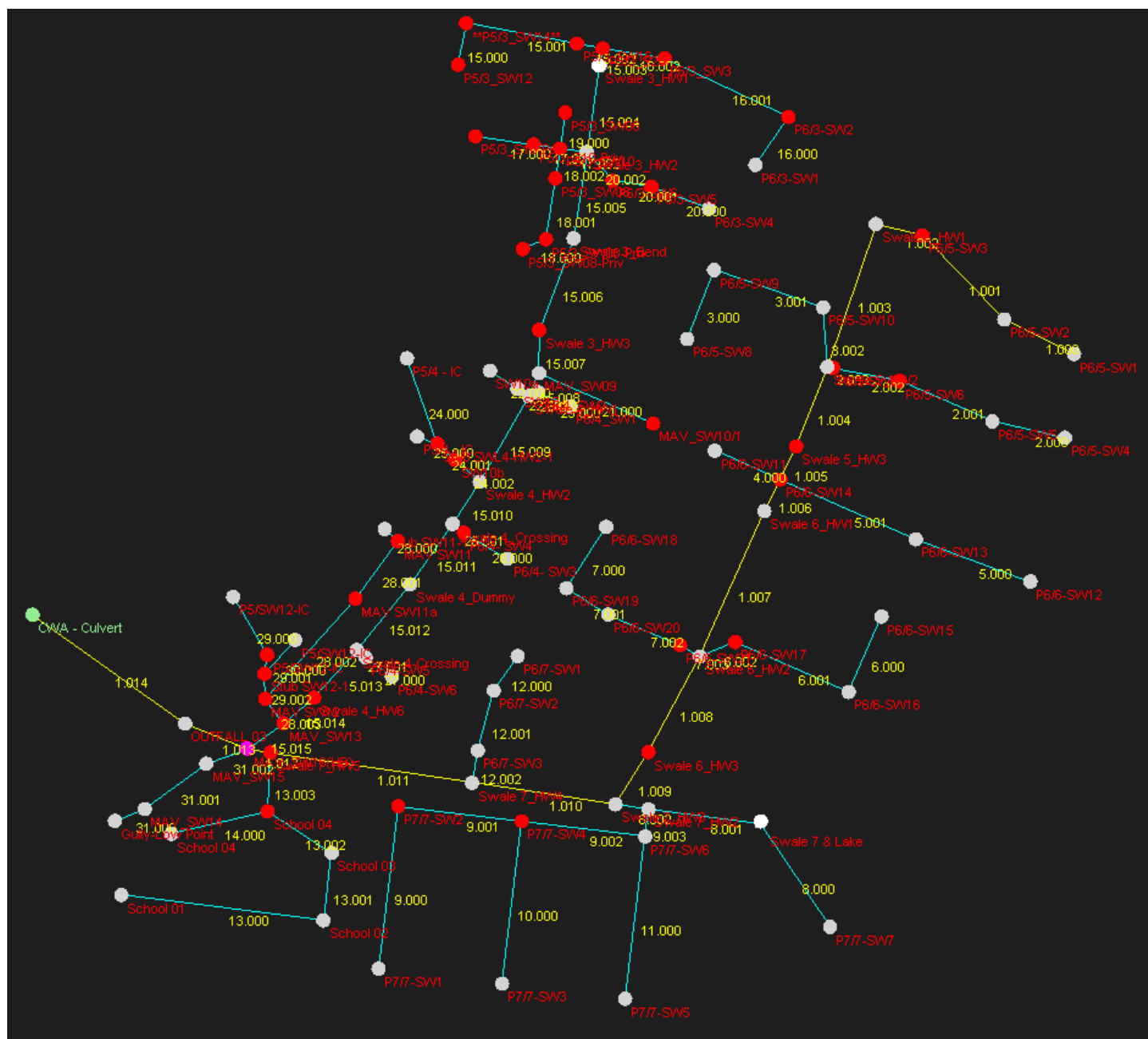


APPENDIX K: Phase 6a - Windes Calculations



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Existing Network Details for Storm

* - Indicates pipe has been modified outside of System 1

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
* 1.000	36.980	0.250	147.9	0.086	5.00	0.600	o	225	Pipe/Conduit
* 1.001	55.847	0.380	147.0	0.086	5.00	0.600	o	300	Pipe/Conduit
* 1.002	22.690	0.570	39.8	0.086	5.00	0.600	o	300	Pipe/Conduit
* 1.003	71.547	0.000	0.0	0.065	0.00	0.600	\/	-2	Pipe/Conduit
* 2.000	35.358	0.240	147.3	0.086	5.00	0.600	o	225	Pipe/Conduit
* 2.001	48.271	0.330	146.3	0.086	5.00	0.600	o	225	Pipe/Conduit
* 2.002	32.010	0.220	145.5	0.086	5.00	0.600	o	300	Pipe/Conduit
* 2.003	2.756	0.110	25.1	0.000	5.00	0.600	o	300	Pipe/Conduit
* 3.000	35.116	0.300	117.1	0.110	5.00	0.600	o	225	Pipe/Conduit
* 3.001	54.788	0.400	137.0	0.110	5.00	0.600	o	225	Pipe/Conduit
* 3.002	28.175	0.800	35.2	0.110	5.00	0.600	o	300	Pipe/Conduit
* 1.004	40.590	0.000	0.0	0.065	0.00	0.600	\/	-2	Pipe/Conduit
* 1.005	17.430	0.000	0.0	0.065	0.00	0.600	o	375	Pipe/Conduit
* 4.000	34.000	0.340	100.0	0.128	5.00	0.600	o	225	Pipe/Conduit
* 5.000	58.036	0.230	252.3	0.128	5.00	0.600	o	300	Pipe/Conduit
* 5.001	70.308	0.370	190.0	0.128	5.00	0.600	o	300	Pipe/Conduit
* 1.006	16.729	0.000	0.0	0.128	0.00	0.600	o	375	Pipe/Conduit
* 1.007	75.454	0.000	0.0	0.078	0.00	0.600	\/	-2	Pipe/Conduit
* 6.000	39.050	0.390	100.1	0.128	5.00	0.600	o	225	Pipe/Conduit

PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
* 1.000	P6/5-SW1	4.100	3.400	0.475	4.100	3.150	0.725		1200
* 1.001	P6/5-SW2	4.100	3.150	0.650	4.200	2.770	1.130		1200
* 1.002	P6/5-SW3	4.200	2.770	1.130	4.100	2.200	1.600		1200
* 1.003	Swale 5_HW1	4.100	2.200	0.000	4.100	2.200	0.000		1200
* 2.000	P6/5-SW4	4.100	3.400	0.475	4.100	3.160	0.715		1200
* 2.001	P6/5-SW5	4.100	3.160	0.715	4.100	2.830	1.045		1200
* 2.002	P6/5-SW6	4.100	2.830	0.970	4.100	2.610	1.190		1200
* 2.003	P6/5-SW7	4.100	2.610	1.190	4.100	2.500	1.300		1200
* 3.000	P6/5-SW8	4.900	3.700	0.975	4.600	3.400	0.975		1200
* 3.001	P6/5-SW9	4.600	3.400	0.975	4.100	3.000	0.875		1200
* 3.002	P6/5-SW10	4.100	3.000	0.800	4.100	2.200	1.600		1200
* 1.004	Swale 5_HW2	4.100	2.200	0.000	4.100	2.200	0.000		1200
* 1.005	Swale 5_HW3	4.100	2.200	1.525	4.200	2.200	1.625		1200
* 4.000	P6/6-SW11	4.340	2.940	1.175	4.200	2.600	1.375		1200
* 5.000	P6/6-SW12	4.100	3.200	0.600	4.700	2.970	1.430		1200
* 5.001	P6/6-SW13	4.700	2.970	1.430	4.200	2.600	1.300		1200
* 1.006	P6/6-SW14	4.200	2.200	1.625	4.100	2.200	1.525		1200
* 1.007	Swale 6_HW1	4.100	2.200	0.000	4.100	2.200	0.000		1200
* 6.000	P6/6-SW15	4.900	3.800	0.875	4.600	3.410	0.965		1200

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Existing Network Details for Storm

	PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
*	6.001	58.786	0.810	72.6	0.128	0.00	0.600	o	225	Pipe/Conduit
*	6.002	18.126	0.100	181.3	0.128	5.00	0.600	o	300	Pipe/Conduit
*	7.000	34.730	0.230	151.0	0.107	5.00	0.600	o	225	Pipe/Conduit
*	7.001	23.508	0.160	146.9	0.107	5.00	0.600	o	225	Pipe/Conduit
*	7.002	37.061	0.710	52.2	0.107	5.00	0.600	o	225	Pipe/Conduit
*	7.003	10.867	0.400	27.2	0.107	5.00	0.600	o	300	Pipe/Conduit
*	1.008	51.615	0.000	0.0	0.078	0.00	0.600	\/	-2	Pipe/Conduit
*	1.009	29.351	0.100	293.5	0.078	0.00	0.600	o	375	Pipe/Conduit
*	8.000	58.942	0.900	65.5	0.222	5.00	0.600	o	225	Pipe/Conduit
*	8.001	53.693	0.000	0.0	0.647	5.00	0.600	\/	-1	Pipe/Conduit
*	9.000	77.654	0.520	149.3	0.222	5.00	0.600	o	300	Pipe/Conduit
*	9.001	59.107	0.400	147.8	0.222	0.00	0.600	o	300	Pipe/Conduit
*	10.000	77.607	0.920	84.4	0.222	5.00	0.600	o	300	Pipe/Conduit
*	9.002	59.014	0.380	155.3	0.222	0.00	0.600	o	375	Pipe/Conduit
*	11.000	77.603	1.100	70.5	0.222	5.00	0.600	o	300	Pipe/Conduit
*	9.003	13.021	0.500	26.0	0.222	0.00	0.600	o	375	Pipe/Conduit
*	8.002	15.880	0.000	0.0	0.156	0.00	0.600	\/	-1	Pipe/Conduit

	PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
*	6.001	P6/6-SW16	4.600	3.410	0.965	4.100	2.600	1.275		1200
*	6.002	P6/6-SW17	4.100	2.600	1.200	4.100	2.500	1.300		1200
*	7.000	P6/6-SW18	4.900	3.700	0.975	4.700	3.470	1.005		1200
*	7.001	P6/6-SW19	4.700	3.470	1.005	4.450	3.310	0.915		1200
*	7.002	P6/6-SW20	4.450	3.310	0.915	4.100	2.600	1.275		1200
*	7.003	P6/6-SW21	4.100	2.600	1.200	4.100	2.200	1.600		1200
*	1.008	Swale 6_HW2	4.100	2.200	0.000	4.100	2.200	0.000		1200
*	1.009	Swale 6_HW3	4.100	2.200	1.525	4.100	2.100	1.625		1200
*	8.000	P7/7-SW7	4.200	3.000	0.975	4.100	2.100	1.775		1200
*	8.001	Swale 7 & Lake	4.100	2.100	0.000	4.100	2.100	0.000		1200
*	9.000	P7/7-SW1	5.100	3.900	0.900	4.900	3.380	1.220		1200
*	9.001	P7/7-SW2	4.900	3.380	1.220	4.500	2.980	1.220		1200
*	10.000	P7/7-SW3	5.100	3.900	0.900	4.500	2.980	1.220		1200
*	9.002	P7/7-SW4	4.500	2.980	1.145	4.100	2.600	1.125		1200
*	11.000	P7/7-SW5	4.900	3.700	0.900	4.100	2.600	1.200		1200
*	9.003	P7/7-SW6	4.100	2.600	1.125	4.100	2.100	1.625		1200
*	8.002	Swale 7_HW2	4.100	2.100	0.000	4.100	2.100	0.000		1200

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Existing Network Details for Storm

	PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
*	1.010	68.854	0.000	0.0	0.078	0.00	0.600	\\	-1	Pipe/Conduit
*	12.000	19.880	0.150	132.5	0.107	5.00	0.600	o	225	Pipe/Conduit
*	12.001	29.478	0.200	147.4	0.107	5.00	0.600	o	225	Pipe/Conduit
*	12.002	15.498	0.750	20.7	0.107	5.00	0.600	o	300	Pipe/Conduit
*	1.011	96.780	0.000	0.0	0.078	0.00	0.600	\\	-1	Pipe/Conduit
*	13.000	96.639	0.640	151.0	0.156	5.00	0.600	o	300	Pipe/Conduit
*	13.001	32.294	0.230	140.4	0.156	0.00	0.600	o	300	Pipe/Conduit
*	13.002	36.276	0.240	151.2	0.156	0.00	0.600	o	300	Pipe/Conduit
*	14.000	46.957	0.610	77.0	0.156	5.00	0.600	o	300	Pipe/Conduit
*	13.003	28.048	0.590	47.5	0.156	0.00	0.600	o	300	Pipe/Conduit
*	1.012	10.892	0.250	43.6	0.078	0.00	0.600	o	450	Pipe/Conduit
*	15.000	20.068	0.125	160.5	0.052	5.00	0.600	o	225	Pipe/Conduit
*	15.001	53.547	0.225	238.0	0.052	5.00	0.600	o	300	Pipe/Conduit
*	15.002	12.421	0.050	248.4	0.052	0.00	0.600	o	375	Pipe/Conduit
*	16.000	27.597	0.200	138.0	0.075	5.00	0.600	o	225	Pipe/Conduit
*	16.001	65.023	0.440	147.8	0.075	5.00	0.600	o	300	Pipe/Conduit
*	16.002	29.868	0.510	58.6	0.075	5.00	0.600	o	300	Pipe/Conduit
*	15.003	8.362	-0.050	-167.2	0.000	5.00	0.600	o	375	Pipe/Conduit

	PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
*	1.010	Swale 7_HW3	4.100	2.100	0.000	4.100	2.100	0.000		1200
*	12.000	P6/7-SW1	4.500	3.300	0.975	4.300	3.150	0.925		1200
*	12.001	P6/7-SW2	4.300	3.150	0.925	4.100	2.950	0.925		1200
*	12.002	P6/7-SW3	4.100	2.950	0.850	4.100	2.200	1.600		1200
*	1.011	Swale 7_HW4	4.100	2.100	0.000	4.100	2.100	0.000		1200
*	13.000	School 01	4.800	3.900	0.600	4.800	3.260	1.240		1200
*	13.001	School 02	4.800	3.260	1.240	4.800	3.030	1.470		1200
*	13.002	School 03	4.800	3.030	1.470	4.800	2.790	1.710		1200
*	14.000	School 04	4.800	3.400	1.100	4.800	2.790	1.710		1200
*	13.003	School 04	4.800	2.790	1.710	4.100	2.200	1.600		1200
*	1.012	Swale 7_HW5	4.100	2.100	1.550	5.000	1.850	2.700		1200
*	15.000	P5/3_SW12	4.100	2.600	1.275	4.100	2.475	1.400		1200
*	15.001	**P5/3_SW14**	4.100	2.400	1.400	4.100	2.175	1.625		1200
*	15.002	P5/3_SW16	4.100	2.100	1.625	4.100	2.050	1.675		1200
*	16.000	P6/3-SW1	4.300	3.200	0.875	4.100	3.000	0.875		1200
*	16.001	P6/3-SW2	4.100	3.000	0.800	4.100	2.560	1.240		1200
*	16.002	P6/3_SW3	4.100	2.560	1.240	4.100	2.050	1.750		1200
*	15.003	P5/3_S28	4.100	2.050	1.675	4.100	2.100	1.625		1200

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Existing Network Details for Storm

	PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
	* 15.004	41.581	0.000	0.0	0.066	0.00	0.600	\/	-1	Pipe/Conduit
	* 17.000	28.001	0.200	140.0	0.037	5.00	0.600	o	150	Pipe/Conduit
	* 17.001	12.529	0.150	83.5	0.037	0.00	0.600	o	150	Pipe/Conduit
	* 18.000	11.872	0.150	79.1	0.037	5.00	0.600	o	150	Pipe/Conduit
	* 18.001	29.270	0.475	61.6	0.037	0.00	0.600	o	150	Pipe/Conduit
	* 18.002	14.392	0.125	115.1	0.037	0.00	0.600	o	225	Pipe/Conduit
	* 19.000	17.206	0.125	137.6	0.037	5.00	0.600	o	225	Pipe/Conduit
	* 17.002	12.850	0.150	85.7	0.038	0.00	0.600	o	300	Pipe/Conduit
	* 20.000	29.325	0.200	146.6	0.075	5.00	0.600	o	225	Pipe/Conduit
	* 20.001	18.718	0.150	124.8	0.075	5.00	0.600	o	225	Pipe/Conduit
	* 20.002	18.260	0.750	24.3	0.075	5.00	0.600	o	225	Pipe/Conduit
	* 15.005	41.481	0.000	0.0	0.066	0.00	0.600	\/	-1	Pipe/Conduit
	* 15.006	46.465	0.000	0.0	0.066	0.00	0.600	\/	-1	Pipe/Conduit
	* 15.007	20.466	-0.390	-52.5	0.066	0.00	0.600	o	375	Pipe/Conduit
	* 21.000	59.264	0.090	658.5	0.107	5.00	0.600	o	225	Pipe/Conduit
	* 15.008	11.950	0.200	59.8	0.035	0.00	0.600	o	375	Pipe/Conduit
	* 22.000	15.400	0.150	102.7	0.055	5.00	0.600	o	225	Pipe/Conduit
	* 22.001	6.446	0.050	128.9	0.010	5.00	0.600	o	225	Pipe/Conduit

	PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
	* 15.004	Swale 3_HW1	4.100	2.100	0.000	4.100	2.100	0.000		1200
	* 17.000	P5/3_S10-Priv	4.200	2.750	1.300	4.200	2.550	1.500		450
	* 17.001	P5/3_S10-Priv	4.200	2.550	1.500	4.100	2.400	1.550		450
	* 18.000	P5/3_SW08-Priv	4.300	3.150	1.000	4.100	3.000	0.950		450
	* 18.001	P5/3_SW08-Priv	4.100	3.000	0.950	4.100	2.525	1.425		450
	* 18.002	P5/3_SW08	4.100	2.450	1.425	4.100	2.325	1.550		1200
	* 19.000	P5/3_SW06	4.100	2.450	1.425	4.100	2.325	1.550		1200
	* 17.002	P5/3_SW10	4.100	2.250	1.550	4.100	2.100	1.700		1200
	* 20.000	P6/3-SW4	4.400	3.200	0.975	4.200	3.000	0.975		1200
	* 20.001	P6/3-SW5	4.200	3.000	0.975	4.100	2.850	1.025		1200
	* 20.002	P6/3-SW6	4.100	2.850	1.025	4.100	2.100	1.775		1200
	* 15.005	Swale 3_HW2	4.100	2.100	0.000	4.100	2.100	0.000		1200
	* 15.006	Swale 3_Bend	4.100	2.100	0.000	4.100	2.100	0.000		1200
	* 15.007	Swale 3_HW3	4.100	2.100	1.625	4.690	2.490	1.825		1200
	* 21.000	MAV_SW10/1	4.745	2.740	1.780	4.690	2.650	1.815		1200
	* 15.008	MAV_SW09	4.690	3.400	0.915	4.100	3.200	0.525		1200
	* 22.000	SW10a	5.100	3.500	1.375	4.100	3.350	0.525		1200
	* 22.001	SW10	4.100	3.350	0.525	4.100	3.300	0.575		1200

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Existing Network Details for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
* 23.000	16.822	0.120	140.2	0.042	5.00	0.600	o	225	Pipe/Conduit
* 23.001	4.892	0.180	27.2	0.042	5.00	0.600	o	225	Pipe/Conduit
* 15.009	46.925	0.000	0.0	0.030	0.00	0.600	\	-3	Pipe/Conduit
* 24.000	43.000	0.350	122.9	0.070	5.00	0.600	o	150	Pipe/Conduit
* 25.000	10.206	0.100	102.1	0.069	5.00	0.600	o	150	Pipe/Conduit
* 24.001	11.400	0.056	203.6	0.000	0.00	0.600	o	225	Pipe/Conduit
* 24.002	15.614	0.070	223.1	0.066	5.00	0.600	o	225	Pipe/Conduit
* 15.010	23.703	0.000	0.0	0.030	0.00	0.600	\	-3	Pipe/Conduit
* 26.000	24.136	0.160	150.9	0.042	5.00	0.600	o	225	Pipe/Conduit
* 26.001	6.737	0.140	48.1	0.042	5.00	0.600	o	225	Pipe/Conduit
* 15.011	35.064	0.000	0.0	0.030	0.00	0.600	\	-3	Pipe/Conduit
* 15.012	40.077	0.000	0.0	0.030	0.00	0.600	\	-3	Pipe/Conduit
* 27.000	15.437	0.110	140.3	0.042	5.00	0.600	o	225	Pipe/Conduit
* 27.001	5.414	0.190	28.5	0.042	5.00	0.600	o	225	Pipe/Conduit
* 15.013	30.470	0.000	0.0	0.030	0.00	0.600	\	-3	Pipe/Conduit
* 15.014	18.963	0.565	33.6	0.030	0.00	0.600	o	225	Pipe/Conduit

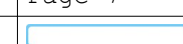
PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
* 23.000	P6/4_SW1	4.400	3.500	0.675	4.100	3.380	0.495		1200
* 23.001	P6/4_SW2	4.100	3.380	0.495	4.100	3.200	0.675		1200
* 15.009	Swale 4_HW1	4.100	3.200	0.000	4.100	3.200	0.000		1200
* 24.000	P5/4 - IC	4.600	3.850	0.600	4.913	3.500	1.263		450
* 25.000	P5/4 - IC	4.600	3.600	0.850	4.913	3.500	1.263		450
* 24.001	Stub SW14-HW2-1	4.913	3.426	1.262	4.810	3.370	1.215		450
* 24.002	SW10b	4.810	3.370	1.215	4.100	3.300	0.575		1200
* 15.010	Swale 4_HW2	4.100	3.200	0.000	4.100	3.200	0.000		1200
* 26.000	P6/4- SW3	4.300	3.500	0.575	4.100	3.340	0.535		1200
* 26.001	P6/4- SW4	4.100	3.340	0.535	4.100	3.200	0.675		1200
* 15.011	Swale 4_Crossing	4.100	3.200	0.000	4.100	3.200	0.000		1200
* 15.012	Swale 4_Dummy	4.100	3.200	0.000	4.100	3.200	0.000		1200
* 27.000	P6/4-SW6	4.300	3.500	0.575	4.100	3.390	0.485		1200
* 27.001	P6/4-SW5	4.100	3.390	0.485	4.100	3.200	0.675		1200
* 15.013	Swale 4-Crossing	4.100	3.200	0.000	4.100	3.200	0.000		1200
* 15.014	Swale 4_HW6	4.100	3.200	0.675	4.500	2.635	1.640		1200

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Existing Network Details for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
* 28.000	8.368	0.278	30.1	0.051	5.00	0.600	o	150	Pipe/Conduit
* 28.001	33.993	0.185	183.7	0.102	5.00	0.600	o	225	Pipe/Conduit
* 28.002	64.000	0.360	177.8	0.132	0.00	0.600	o	300	Pipe/Conduit
* 29.000	31.869	0.600	53.1	0.062	5.00	0.600	o	150	Pipe/Conduit
* 29.001	9.112	0.400	22.8	0.062	0.00	0.600	o	150	Pipe/Conduit
* 30.000	21.621	0.420	51.5	0.062	5.00	0.600	o	150	Pipe/Conduit
* 29.002	12.000	0.195	61.5	0.000	5.00	0.600	o	225	Pipe/Conduit
* 28.003	14.424	0.070	206.1	0.048	5.00	0.600	o	300	Pipe/Conduit
* 15.015	20.852	0.560	37.2	0.000	0.00	0.600	o	300	Pipe/Conduit
* 31.000	15.291	0.455	33.6	0.032	5.00	0.600	o	150	Pipe/Conduit
* 31.001	36.218	0.250	144.9	0.038	5.00	0.600	o	225	Pipe/Conduit
* 31.002	21.026	0.430	48.9	0.038	0.00	0.600	o	225	Pipe/Conduit
* 1.013	32.203	0.400	80.5	0.000	0.00	0.600	o	450	Pipe/Conduit
* 1.014	88.949	0.100	889.5	0.000	0.00	0.600	o	900	Pipe/Conduit

PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
* 28.000	Stub SW11-1	4.650	3.608	0.892	4.450	3.330	0.970		1200
* 28.001	MAV SW11	4.450	3.250	0.975	4.280	3.065	0.990		1200
* 28.002	MAV SW11a	4.280	2.990	0.990	4.700	2.630	1.770		1200
* 29.000	P5/SW12-IC	4.650	3.900	0.600	4.800	3.300	1.350		1200
* 29.001	P5/SW12-IC	4.800	3.300	1.350	4.840	2.900	1.790		1200
* 30.000	P5/SW12-IC	4.800	3.320	1.330	4.840	2.900	1.790		1200
* 29.002	Stub SW12-1	4.840	2.900	1.715	4.700	2.705	1.770		1200
* 28.003	MAV SW12	4.700	2.630	1.770	4.500	2.560	1.640		1200
* 15.015	MAV_SW13	4.500	2.560	1.640	5.000	2.000	2.700		1200
* 31.000	Gully-Low Point	4.700	3.680	0.870	4.860	3.225	1.485		1200
* 31.001	MAV_SW14	4.860	3.360	1.275	5.000	3.110	1.665		1200
* 31.002	MAV_SW15	5.000	3.110	1.665	5.000	2.680	2.095		1200
* 1.013	MAV_SW16 (HB)	5.000	1.850	2.700	4.000	1.450	2.100	Hydro-Brake®	1200
* 1.014	OUTFALL 03	4.000	1.200	1.900	4.000	1.100	2.000		1200

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Conduit Sections for Storm

NOTE: Diameters less than 66 refer to section numbers of hydraulic conduits. These conduits are marked by the symbols:- [] box
culvert, \ / open channel, oo dual pipe, ooo triple pipe, O egg.

Section numbers < 0 are taken from user conduit table

Section Number	Conduit Type	Major Dimn. (mm)	Minor Dimn. (mm)	Side Slope (Deg)	Corner Splay (mm)	4*Hyd Radius (m)	XSect Area (m ²)
-1	\ /	1500	2000	18.4		4.241	15.024
-2	\ /	1500	1900	17.6		4.046	14.230
-3	\ /	1000	900	17.6		1.987	3.453

Surcharged Outfall Details for Storm

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

1.014 CWA - Culvert 4.000 1.100 0.000 1325 0

Datum (m) 0.000 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
1	1.800	37	1.800	73	1.800	109	1.800	145	1.800	181	1.800	217	1.800	253	1.800
2	1.800	38	1.800	74	1.800	110	1.800	146	1.800	182	1.800	218	1.800	254	1.800
3	1.800	39	1.800	75	1.800	111	1.800	147	1.800	183	1.800	219	1.800	255	1.800
4	1.800	40	1.800	76	1.800	112	1.800	148	1.800	184	1.800	220	1.800	256	1.800
5	1.800	41	1.800	77	1.800	113	1.800	149	1.800	185	1.800	221	1.800	257	1.800
6	1.800	42	1.800	78	1.800	114	1.800	150	1.800	186	1.800	222	1.800	258	1.800
7	1.800	43	1.800	79	1.800	115	1.800	151	1.800	187	1.800	223	1.800	259	1.800
8	1.800	44	1.800	80	1.800	116	1.800	152	1.800	188	1.800	224	1.800	260	1.800
9	1.800	45	1.800	81	1.800	117	1.800	153	1.800	189	1.800	225	1.800	261	1.800
10	1.800	46	1.800	82	1.800	118	1.800	154	1.800	190	1.800	226	1.800	262	1.800
11	1.800	47	1.800	83	1.800	119	1.800	155	1.800	191	1.800	227	1.800	263	1.800
12	1.800	48	1.800	84	1.800	120	1.800	156	1.800	192	1.800	228	1.800	264	1.800
13	1.800	49	1.800	85	1.800	121	1.800	157	1.800	193	1.800	229	1.800	265	1.800
14	1.800	50	1.800	86	1.800	122	1.800	158	1.800	194	1.800	230	1.800	266	1.800
15	1.800	51	1.800	87	1.800	123	1.800	159	1.800	195	1.800	231	1.800	267	1.800
16	1.800	52	1.800	88	1.800	124	1.800	160	1.800	196	1.800	232	1.800	268	1.800
17	1.800	53	1.800	89	1.800	125	1.800	161	1.800	197	1.800	233	1.800	269	1.800
18	1.800	54	1.800	90	1.800	126	1.800	162	1.800	198	1.800	234	1.800	270	1.800
19	1.800	55	1.800	91	1.800	127	1.800	163	1.800	199	1.800	235	1.800	271	1.800
20	1.800	56	1.800	92	1.800	128	1.800	164	1.800	200	1.800	236	1.800	272	1.800
21	1.800	57	1.800	93	1.800	129	1.800	165	1.800	201	1.800	237	1.800	273	1.800
22	1.800	58	1.800	94	1.800	130	1.800	166	1.800	202	1.800	238	1.800	274	1.800
23	1.800	59	1.800	95	1.800	131	1.800	167	1.800	203	1.800	239	1.800	275	1.800
24	1.800	60	1.800	96	1.800	132	1.800	168	1.800	204	1.800	240	1.800	276	1.800
25	1.800	61	1.800	97	1.800	133	1.800	169	1.800	205	1.800	241	1.800	277	1.800
26	1.800	62	1.800	98	1.800	134	1.800	170	1.800	206	1.800	242	1.800	278	1.800
27	1.800	63	1.800	99	1.800	135	1.800	171	1.800	207	1.800	243	1.800	279	1.800
28	1.800	64	1.800	100	1.800	136	1.800	172	1.800	208	1.800	244	1.800	280	1.800
29	1.800	65	1.800	101	1.800	137	1.800	173	1.800	209	1.800	245	1.800	281	1.800
30	1.800	66	1.800	102	1.800	138	1.800	174	1.800	210	1.800	246	1.800	282	1.800
31	1.800	67	1.800	103	1.800	139	1.800	175	1.800	211	1.800	247	1.800	283	1.800
32	1.800	68	1.800	104	1.800	140	1.800	176	1.800	212	1.800	248	1.800	284	1.800
33	1.800	69	1.800	105	1.800	141	1.800	177	1.800	213	1.800	249	1.800	285	1.800
34	1.800	70	1.800	106	1.800	142	1.800	178	1.800	214	1.800	250	1.800	286	1.800
35	1.800	71	1.800	107	1.800	143	1.800	179	1.800	215	1.800	251	1.800	287	1.800
36	1.800	72	1.800	108	1.800	144	1.800	180	1.800	216	1.800	252	1.800	288	1.800

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Surcharged Outfall Details for Storm													
Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
289	1.800	328	1.800	367	1.800	406	1.800	445	1.800	484	1.800	523	1.800
290	1.800	329	1.800	368	1.800	407	1.800	446	1.800	485	1.800	524	1.800
291	1.800	330	1.800	369	1.800	408	1.800	447	1.800	486	1.800	525	1.800
292	1.800	331	1.800	370	1.800	409	1.800	448	1.800	487	1.800	526	1.800
293	1.800	332	1.800	371	1.800	410	1.800	449	1.800	488	1.800	527	1.800
294	1.800	333	1.800	372	1.800	411	1.800	450	1.800	489	1.800	528	1.800
295	1.800	334	1.800	373	1.800	412	1.800	451	1.800	490	1.800	529	1.800
296	1.800	335	1.800	374	1.800	413	1.800	452	1.800	491	1.800	530	1.800
297	1.800	336	1.800	375	1.800	414	1.800	453	1.800	492	1.800	531	1.800
298	1.800	337	1.800	376	1.800	415	1.800	454	1.800	493	1.800	532	1.800
299	1.800	338	1.800	377	1.800	416	1.800	455	1.800	494	1.800	533	1.800
300	1.800	339	1.800	378	1.800	417	1.800	456	1.800	495	1.800	534	1.800
301	1.800	340	1.800	379	1.800	418	1.800	457	1.800	496	1.800	535	1.800
302	1.800	341	1.800	380	1.800	419	1.800	458	1.800	497	1.800	536	1.800
303	1.800	342	1.800	381	1.800	420	1.800	459	1.800	498	1.800	537	1.800
304	1.800	343	1.800	382	1.800	421	1.800	460	1.800	499	1.800	538	1.800
305	1.800	344	1.800	383	1.800	422	1.800	461	1.800	500	1.800	539	1.800
306	1.800	345	1.800	384	1.800	423	1.800	462	1.800	501	1.800	540	1.800
307	1.800	346	1.800	385	1.800	424	1.800	463	1.800	502	1.800	541	1.800
308	1.800	347	1.800	386	1.800	425	1.800	464	1.800	503	1.800	542	1.800
309	1.800	348	1.800	387	1.800	426	1.800	465	1.800	504	1.800	543	1.800
310	1.800	349	1.800	388	1.800	427	1.800	466	1.800	505	1.800	544	1.800
311	1.800	350	1.800	389	1.800	428	1.800	467	1.800	506	1.800	545	1.800
312	1.800	351	1.800	390	1.800	429	1.800	468	1.800	507	1.800	546	1.800
313	1.800	352	1.800	391	1.800	430	1.800	469	1.800	508	1.800	547	1.800
314	1.800	353	1.800	392	1.800	431	1.800	470	1.800	509	1.800	548	1.800
315	1.800	354	1.800	393	1.800	432	1.800	471	1.800	510	1.800	549	1.800
316	1.800	355	1.800	394	1.800	433	1.800	472	1.800	511	1.800	550	1.800
317	1.800	356	1.800	395	1.800	434	1.800	473	1.800	512	1.800	551	1.800
318	1.800	357	1.800	396	1.800	435	1.800	474	1.800	513	1.800	552	1.800
319	1.800	358	1.800	397	1.800	436	1.800	475	1.800	514	1.800	553	1.800
320	1.800	359	1.800	398	1.800	437	1.800	476	1.800	515	1.800	554	1.800
321	1.800	360	1.800	399	1.800	438	1.800	477	1.800	516	1.800	555	1.800
322	1.800	361	1.800	400	1.800	439	1.800	478	1.800	517	1.800	556	1.800
323	1.800	362	1.800	401	1.800	440	1.800	479	1.800	518	1.800	557	1.800
324	1.800	363	1.800	402	1.800	441	1.800	480	1.800	519	1.800	558	1.800
325	1.800	364	1.800	403	1.800	442	1.800	481	1.800	520	1.800	559	1.800
326	1.800	365	1.800	404	1.800	443	1.800	482	1.800	521	1.800	560	1.800
327	1.800	366	1.800	405	1.800	444	1.800	483	1.800	522	1.800	561	1.800
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Online Controls for Storm

Hydro-Brake® Optimum Manhole: MAV SW16(HB), DS/PN: 1.013, Volume (m³): 7.3

Unit Reference	MD-SHE-0240-3400-1700-3400
Design Head (m)	1.700
Design Flow (l/s)	34.0
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	240
Invert Level (m)	1.850
Minimum Outlet Pipe Diameter (mm)	300
Suggested Manhole Diameter (mm)	1800

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.700	34.0	Kick-Flo®	1.130	27.9
Flush-Flo™	0.513	34.0	Mean Flow over Head Range	-	29.2

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

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	7.9	0.800	32.9	2.000	36.7	4.000	51.3	7.000	67.3
0.200	24.4	1.000	31.0	2.200	38.5	4.500	54.3	7.500	69.6
0.300	32.4	1.200	28.8	2.400	40.1	5.000	57.2	8.000	71.8
0.400	33.6	1.400	31.0	2.600	41.7	5.500	59.9	8.500	74.0
0.500	34.0	1.600	33.0	3.000	44.7	6.000	62.5	9.000	76.1
0.600	33.8	1.800	34.9	3.500	48.1	6.500	64.9	9.500	78.1

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Offline Controls for Storm

Depth/Flow Relationship Manhole: Swale 7 & Lake, DS/PN: 8.001, Loop to PN:
None

Invert Level (m) 2.100

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.200	5.0000	1.400	5.0000	2.600	5.0000	3.800	5.0000	5.000	5.0000
0.400	5.0000	1.600	5.0000	2.800	5.0000	4.000	5.0000	5.200	5.0000
0.600	5.0000	1.800	5.0000	3.000	5.0000	4.200	5.0000	5.400	5.0000
0.800	5.0000	2.000	5.0000	3.200	5.0000	4.400	5.0000	5.600	5.0000
1.000	5.0000	2.200	5.0000	3.400	5.0000	4.600	5.0000	5.800	5.0000
1.200	5.0000	2.400	5.0000	3.600	5.0000	4.800	5.0000	6.000	5.0000

Depth/Flow Relationship Manhole: Swale 3 HW1, DS/PN: 15.004, Loop to PN:
None

Invert Level (m) 2.100

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.200	5.0000	1.400	5.0000	2.600	5.0000	3.800	5.0000	5.000	5.0000
0.400	5.0000	1.600	5.0000	2.800	5.0000	4.000	5.0000	5.200	5.0000
0.600	5.0000	1.800	5.0000	3.000	5.0000	4.200	5.0000	5.400	5.0000
0.800	5.0000	2.000	5.0000	3.200	5.0000	4.400	5.0000	5.600	5.0000
1.000	5.0000	2.200	5.0000	3.400	5.0000	4.600	5.0000	5.800	5.0000
1.200	5.0000	2.400	5.0000	3.600	5.0000	4.800	5.0000	6.000	5.0000

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Lion House

Oriental Road

Woking, GU22 8AR

Hampton Park

South & East Central Wetland

Catchment 03

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File Outfall 03 Network_Swal...

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Offline Controls 2

Number of Time/Area Diagrams 2

Number of Online Controls 1

Number of Storage Structures 1

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 19.100 Cv (Summer) 0.840

Region England and Wales Ratio R 0.350 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status ON

DVD Status OFF

Inertia Status ON

Profile(s) Winter

Duration(s) (mins) 15, 30, 60

Return Period(s) (years) 2

Climate Change (%) 0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	P6/5-SW1	15 Winter	2	+0%					3.492
1.001	P6/5-SW2	15 Winter	2	+0%					3.266
1.002	P6/5-SW3	15 Winter	2	+0%					2.873
1.003	Swale 5_HW1	30 Winter	2	+0%					2.647
2.000	P6/5-SW4	15 Winter	2	+0%					3.492
2.001	P6/5-SW5	15 Winter	2	+0%					3.296
2.002	P6/5-SW6	15 Winter	2	+0%					2.976
2.003	P6/5-SW7	15 Winter	2	+0%					2.755
3.000	P6/5-SW8	15 Winter	2	+0%					3.799
3.001	P6/5-SW9	15 Winter	2	+0%					3.558
3.002	P6/5-SW10	15 Winter	2	+0%					3.113
1.004	Swale 5_HW2	30 Winter	2	+0%					2.646
1.005	Swale 5_HW3	30 Winter	2	+0%	2/15 Winter				2.646
4.000	P6/6-SW11	15 Winter	2	+0%					3.044
5.000	P6/6-SW12	15 Winter	2	+0%					3.317
5.001	P6/6-SW13	15 Winter	2	+0%					3.124
1.006	P6/6-SW14	30 Winter	2	+0%	2/15 Winter				2.615
1.007	Swale 6_HW1	30 Winter	2	+0%					2.575
6.000	P6/6-SW15	15 Winter	2	+0%					3.903
6.001	P6/6-SW16	15 Winter	2	+0%					3.543
6.002	P6/6-SW17	15 Winter	2	+0%					2.807
7.000	P6/6-SW18	15 Winter	2	+0%					3.805
7.001	P6/6-SW19	15 Winter	2	+0%					3.634
7.002	P6/6-SW20	15 Winter	2	+0%					3.455
7.003	P6/6-SW21	15 Winter	2	+0%					2.736
1.008	Swale 6_HW2	30 Winter	2	+0%					2.574
1.009	Swale 6_HW3	30 Winter	2	+0%					2.572
8.000	P7/7-SW7	15 Winter	2	+0%					3.125
8.001	Swale 7 & Lake	60 Winter	2	+0%			2/15 Winter	3	2.298
9.000	P7/7-SW1	15 Winter	2	+0%					4.036
9.001	P7/7-SW2	15 Winter	2	+0%					3.574
10.000	P7/7-SW3	15 Winter	2	+0%					4.016
9.002	P7/7-SW4	15 Winter	2	+0%					3.245
11.000	P7/7-SW5	15 Winter	2	+0%					3.810

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Lion House Oriental Road Woking, GU22 8AR				Hampton Park South & East Central Wetland Catchment 03					
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Innovyze				Network 2020.1					
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
9.003	P7/7-SW6	15 Winter	2	+0%					2.823
8.002	Swale 7_HW2	30 Winter	2	+0%					2.330
1.010	Swale 7_HW3	15 Winter	2	+0%					2.375
12.000	P6/7-SW1	15 Winter	2	+0%					3.404
12.001	P6/7-SW2	15 Winter	2	+0%					3.314
12.002	P6/7-SW3	15 Winter	2	+0%					3.051
1.011	Swale 7_HW4	15 Winter	2	+0%					2.412
13.000	School 01	30 Winter	2	+0%					3.986
13.001	School 02	30 Winter	2	+0%					3.385
13.002	School 03	15 Winter	2	+0%					3.192
14.000	School 04	15 Winter	2	+0%					3.494
13.003	School 04	15 Winter	2	+0%					2.962
1.012	Swale 7_HW5	15 Winter	2	+0%					2.430
15.000	P5/3_SW12	15 Winter	2	+0%					2.673
15.001	**P5/3_SW14**	60 Winter	2	+0%					2.660
15.002	P5/3_SW16	60 Winter	2	+0%	2/15 Winter				2.660
16.000	P6/3-SW1	15 Winter	2	+0%					3.285
16.001	P6/3-SW2	15 Winter	2	+0%					3.108
16.002	P6/3_SW3	15 Winter	2	+0%					2.665
15.003	P5/3_S28	60 Winter	2	+0%	2/15 Winter				2.660
15.004	Swale 3_HW1	60 Winter	2	+0%			2/15 Winter	3	2.660
17.000	P5/3_S10-Priv	15 Winter	2	+0%					2.818
17.001	P5/3_S10-Priv	60 Winter	2	+0%					2.662
18.000	P5/3_SW08-Priv	15 Winter	2	+0%					3.210
18.001	P5/3_SW08-Priv	15 Winter	2	+0%					3.077
18.002	P5/3_SW08	60 Winter	2	+0%					2.661
19.000	P5/3_SW06	60 Winter	2	+0%					2.661
17.002	P5/3_SW10	60 Winter	2	+0%	2/30 Winter				2.661
20.000	P6/3-SW4	15 Winter	2	+0%					3.286
20.001	P6/3-SW5	15 Winter	2	+0%					3.124
20.002	P6/3-SW6	15 Winter	2	+0%					2.947
15.005	Swale 3_HW2	60 Winter	2	+0%					2.660
15.006	Swale 3_Bend	60 Winter	2	+0%					2.660
15.007	Swale 3_HW3	60 Winter	2	+0%	2/15 Winter				2.661
21.000	MAV_SW10/1	15 Winter	2	+0%					2.909
15.008	MAV_SW09	15 Winter	2	+0%					2.695
22.000	SW10a	15 Winter	2	+0%					3.568
22.001	SW10	15 Winter	2	+0%					3.441
23.000	P6/4_SW1	15 Winter	2	+0%					3.564
23.001	P6/4_SW2	15 Winter	2	+0%					3.453
15.009	Swale 4_HW1	15 Winter	2	+0%					3.381
24.000	P5/4 - IC	15 Winter	2	+0%					3.947
25.000	P5/4 - IC	15 Winter	2	+0%					3.696
24.001	Stub SWL4-HW2-1	15 Winter	2	+0%					3.613
24.002	SW10b	15 Winter	2	+0%					3.582
15.010	Swale 4_HW2	15 Winter	2	+0%					3.381
26.000	P6/4- SW3	15 Winter	2	+0%					3.564
26.001	P6/4- SW4	15 Winter	2	+0%					3.418
15.011	Swale 4_Crossing	15 Winter	2	+0%					3.377
15.012	Swale 4_Dummy	15 Winter	2	+0%					3.369

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Lion House Oriental Road Woking, GU22 8AR				Hampton Park South & East Central Wetland Catchment 03					
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<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
9.003	P7/7-SW6	-0.152	0.000	0.66			183.1	OK	
8.002	Swale 7_HW2	-1.770	0.000	0.00			13.7	OK	
1.010	Swale 7_HW3	-1.725	0.000	0.00			74.0	OK	
12.000	P6/7-SW1	-0.121	0.000	0.42			17.2	OK	
12.001	P6/7-SW2	-0.061	0.000	0.86			34.3	OK	
12.002	P6/7-SW3	-0.199	0.000	0.25			51.1	OK	
1.011	Swale 7_HW4	-1.688	0.000	0.00			57.9	OK	
13.000	School 01	-0.214	0.000	0.18			15.5	OK	
13.001	School 02	-0.175	0.000	0.36			31.0	OK	
13.002	School 03	-0.138	0.000	0.56			46.5	OK	
14.000	School 04	-0.206	0.000	0.21			25.1	OK	
13.003	School 04	-0.128	0.000	0.61			89.3	OK	
1.012	Swale 7_HW5	-0.120	0.000	0.13			35.7	OK	
15.000	P5/3_SW12	-0.152	0.000	0.23			8.4	OK	
15.001	**P5/3_SW14**	-0.040	0.000	0.13			8.7	OK	
15.002	P5/3_SW16	0.185	0.000	0.10			10.0	SURCHARGED	
16.000	P6/3-SW1	-0.140	0.000	0.29			12.1	OK	
16.001	P6/3-SW2	-0.192	0.000	0.27			23.4	OK	
16.002	P6/3_SW3	-0.195	0.000	0.27			35.1	OK	
15.003	P5/3_S28	0.235	0.000	0.49			28.2	SURCHARGED	
15.004	Swale 3_HW1	-1.440	0.000	0.00	5.0		27.9	OK	
17.000	P5/3_S10-Priv	-0.082	0.000	0.42			5.9	OK	
17.001	P5/3_S10-Priv	-0.038	0.000	0.36			6.4	OK	
18.000	P5/3_SW08-Priv	-0.090	0.000	0.34			6.1	OK	
18.001	P5/3_SW08-Priv	-0.073	0.000	0.51			11.1	OK	
18.002	P5/3_SW08	-0.014	0.000	0.22			9.4	OK	
19.000	P5/3_SW06	-0.014	0.000	0.08			3.1	OK	
17.002	P5/3_SW10	0.111	0.000	0.20			19.7	SURCHARGED	
20.000	P6/3-SW4	-0.139	0.000	0.30			12.1	OK	
20.001	P6/3-SW5	-0.101	0.000	0.58			24.2	OK	
20.002	P6/3-SW6	-0.128	0.000	0.38			36.0	OK	
15.005	Swale 3_HW2	-1.440	0.000	0.00			41.6	OK	
15.006	Swale 3_Bend	-1.440	0.000	0.00			17.1	OK	
15.007	Swale 3_HW3	0.186	0.000	0.01			0.2	SURCHARGED	
21.000	MAV_SW10/1	-0.056	0.000	0.86			16.6	OK	
15.008	MAV_SW09	-1.080	0.000	0.00			0.0	OK	
22.000	SW10a	-0.157	0.000	0.20			9.0	OK	
22.001	SW10	-0.134	0.000	0.34			10.6	OK	
23.000	P6/4_SW1	-0.161	0.000	0.17			6.8	OK	
23.001	P6/4_SW2	-0.152	0.000	0.23			13.6	OK	
15.009	Swale 4_HW1	-0.719	0.000	0.01			26.5	OK	
24.000	P5/4 - IC	-0.053	0.000	0.72			11.1	OK	
25.000	P5/4 - IC	-0.054	0.000	0.72			11.3	OK	
24.001	Stub SWL4-HW2-1	-0.038	0.000	0.70			21.6	OK	
24.002	SW10b	-0.013	0.000	1.00			30.6	OK	
15.010	Swale 4_HW2	-0.719	0.000	0.03			50.4	OK	
26.000	P6/4- SW3	-0.161	0.000	0.17			6.8	OK	
26.001	P6/4- SW4	-0.147	0.000	0.26			13.6	OK	
15.011	Swale 4_Crossing	-0.723	0.000	0.02			58.4	OK	
15.012	Swale 4_Dummy	-0.731	0.000	0.02			55.4	OK	
27.000	P6/4-SW6	-0.161	0.000	0.18			6.8	OK	
27.001	P6/4-SW5	-0.153	0.000	0.22			13.6	OK	
15.013	Swale 4-Crossing	-0.742	0.000	0.02			57.8	OK	
15.014	Swale 4_HW6	-0.082	0.000	0.73			58.9	OK	
28.000	Stub SW11-1	-0.094	0.000	0.29			8.3	OK	
28.001	MAV SW11	-0.085	0.000	0.69			24.6	OK	
28.002	MAV SW11a	-0.143	0.000	0.52			41.3	OK	
29.000	P5/SW12-IC	-0.081	0.000	0.43			10.0	OK	
29.001	P5/SW12-IC	-0.068	0.000	0.56			18.6	OK	
30.000	P5/SW12-IC	-0.081	0.000	0.43			10.1	OK	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged	Flooded	Flow / Overflow		Half Drain	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)		
29.002	Stub SW12-1	-0.111	0.000	0.51			28.8	OK	

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Lion House Oriental Road Woking, GU22 8AR		Hampton Park South & East Central Wetland Catchment 03	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
28.003	MAV SW12	15 Winter	2	+0%	2/15 Winter				2.942
15.015	MAV_SW13	15 Winter	2	+0%	2/15 Winter				2.866
31.000	Gully-Low Point	15 Winter	2	+0%					3.724
31.001	MAV_SW14	15 Winter	2	+0%					3.442
31.002	MAV_SW15	15 Winter	2	+0%					3.185
1.013	MAV_SW16 (HB)	15 Winter	2	+0%	2/15 Winter				2.580
1.014	OUTFALL 03	15 Winter	2	+0%					1.806

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
28.003	MAV SW12	0.012	0.000	1.13			72.4	SURCHARGED	
15.015	MAV_SW13	0.006	0.000	0.72			115.2	SURCHARGED	
31.000	Gully-Low Point	-0.106	0.000	0.18			5.2	OK	
31.001	MAV_SW14	-0.143	0.000	0.28			11.3	OK	
31.002	MAV_SW15	-0.150	0.000	0.24			16.6	OK	
1.013	MAV_SW16 (HB)	0.280	0.000	0.11			34.0	SURCHARGED	
1.014	OUTFALL 03	-0.294	0.000	0.06			33.9	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Offline Controls 2

Number of Time/Area Diagrams 2

Number of Online Controls 1

Number of Storage Structures 1

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm)

19.100 Cv (Summer) 0.840

Region England and Wales

Ratio R 0.350 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm)

300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status ON

DVD Status OFF

Inertia Status ON

Profile(s) Winter

Duration(s) (mins) 15, 30, 60

Return Period(s) (years) 30

Climate Change (%) 0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	P6/5-SW1	15 Winter	30	+0%					3.535
1.001	P6/5-SW2	15 Winter	30	+0%					3.319
1.002	P6/5-SW3	15 Winter	30	+0%					2.919
1.003	Swale 5_HW1	60 Winter	30	+0%					2.857
2.000	P6/5-SW4	15 Winter	30	+0%					3.560
2.001	P6/5-SW5	15 Winter	30	+0%	30/15 Winter				3.479
2.002	P6/5-SW6	15 Winter	30	+0%					3.040
2.003	P6/5-SW7	60 Winter	30	+0%					2.861
3.000	P6/5-SW8	15 Winter	30	+0%	30/15 Winter				4.053
3.001	P6/5-SW9	15 Winter	30	+0%	30/15 Winter				3.934
3.002	P6/5-SW10	15 Winter	30	+0%					3.152
1.004	Swale 5_HW2	60 Winter	30	+0%					2.856
1.005	Swale 5_HW3	60 Winter	30	+0%	30/15 Winter				2.856
4.000	P6/6-SW11	15 Winter	30	+0%					3.096
5.000	P6/6-SW12	15 Winter	30	+0%					3.369
5.001	P6/6-SW13	15 Winter	30	+0%					3.206
1.006	P6/6-SW14	60 Winter	30	+0%	30/15 Winter				2.817
1.007	Swale 6_HW1	60 Winter	30	+0%					2.750
6.000	P6/6-SW15	15 Winter	30	+0%	30/15 Winter				4.148
6.001	P6/6-SW16	15 Winter	30	+0%	30/15 Winter				3.968
6.002	P6/6-SW17	15 Winter	30	+0%	30/15 Winter				2.987
7.000	P6/6-SW18	15 Winter	30	+0%	30/15 Winter				4.134
7.001	P6/6-SW19	15 Winter	30	+0%	30/15 Winter				4.035
7.002	P6/6-SW20	15 Winter	30	+0%	30/15 Winter				3.752
7.003	P6/6-SW21	30 Winter	30	+0%					2.816
1.008	Swale 6_HW2	60 Winter	30	+0%					2.749
1.009	Swale 6_HW3	60 Winter	30	+0%	30/15 Winter				2.748
8.000	P7/7-SW7	15 Winter	30	+0%	30/15 Winter				3.294
8.001	Swale 7 & Lake	60 Winter	30	+0%			30/15 Winter	3	2.479
9.000	P7/7-SW1	15 Winter	30	+0%	30/15 Winter				4.443
9.001	P7/7-SW2	15 Winter	30	+0%	30/15 Winter				4.253
10.000	P7/7-SW3	15 Winter	30	+0%					4.068
9.002	P7/7-SW4	15 Winter	30	+0%	30/15 Winter				3.744
11.000	P7/7-SW5	15 Winter	30	+0%					3.859

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Oriental Road

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Catchment 03

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)				
1.000	P6/5-SW1	-0.090	0.000	0.65			26.2	OK	
1.001	P6/5-SW2	-0.131	0.000	0.59			50.8	OK	
1.002	P6/5-SW3	-0.151	0.000	0.49			75.9	OK	
1.003	Swale 5_HW1	-1.243	0.000	0.00			51.9	OK	
2.000	P6/5-SW4	-0.065	0.000	0.63			25.4	OK	
2.001	P6/5-SW5	0.094	0.000	1.12			45.9	SURCHARGED	
2.002	P6/5-SW6	-0.090	0.000	0.81			68.4	OK	
2.003	P6/5-SW7	-0.049	0.000	0.51			42.8	OK	
3.000	P6/5-SW8	0.128	0.000	0.64			28.8	SURCHARGED	
3.001	P6/5-SW9	0.309	0.000	1.30			55.7	SURCHARGED	
3.002	P6/5-SW10	-0.148	0.000	0.49			83.9	OK	
1.004	Swale 5_HW2	-1.244	0.000	0.00			69.4	OK	
1.005	Swale 5_HW3	0.281	0.000	2.21			76.9	SURCHARGED	
4.000	P6/6-SW11	-0.069	0.000	0.80			39.2	OK	
5.000	P6/6-SW12	-0.131	0.000	0.57			37.9	OK	
5.001	P6/6-SW13	-0.064	0.000	0.94			72.7	OK	
1.006	P6/6-SW14	0.242	0.000	3.06			108.0	SURCHARGED	
1.007	Swale 6_HW1	-1.350	0.000	0.01			119.4	OK	
6.000	P6/6-SW15	0.123	0.000	0.69			34.0	SURCHARGED	
6.001	P6/6-SW16	0.333	0.000	1.09			64.1	SURCHARGED	
6.002	P6/6-SW17	0.087	0.000	1.40			99.0	SURCHARGED	
7.000	P6/6-SW18	0.209	0.000	0.68			27.2	SURCHARGED	
7.001	P6/6-SW19	0.340	0.000	1.32			52.0	SURCHARGED	
7.002	P6/6-SW20	0.217	0.000	1.14			77.9	SURCHARGED	
7.003	P6/6-SW21	-0.084	0.000	0.60			94.5	OK	
1.008	Swale 6_HW2	-1.351	0.000	0.01			187.8	OK	
1.009	Swale 6_HW3	0.173	0.000	1.67			171.0	SURCHARGED	
8.000	P7/7-SW7	0.069	0.000	1.03			64.0	SURCHARGED	
8.001	Swale 7 & Lake	-1.621	0.000	0.00	5.0		29.9	OK	
9.000	P7/7-SW1	0.243	0.000	0.66			57.3	SURCHARGED	
9.001	P7/7-SW2	0.573	0.000	1.11			96.1	SURCHARGED	
10.000	P7/7-SW3	-0.132	0.000	0.58			67.1	OK	
9.002	P7/7-SW4	0.389	0.000	1.33			199.4	SURCHARGED	
11.000	P7/7-SW5	-0.141	0.000	0.53			67.4	OK	

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Lion House Oriental Road Woking, GU22 8AR				Hampton Park South & East Central Wetland Catchment 03					
Date 13/02/2024 File Outfall 03 Network_Swal...				Designed by SF Checked by SF					
Innovyze				Network 2020.1					
Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
9.003	P7/7-SW6	15 Winter	30	+0%	30/15 Winter				3.057
8.002	Swale 7_HW2	60 Winter	30	+0%					2.479
1.010	Swale 7_HW3	60 Winter	30	+0%					2.479
12.000	P6/7-SW1	15 Winter	30	+0%	30/15 Winter				3.704
12.001	P6/7-SW2	15 Winter	30	+0%	30/15 Winter				3.622
12.002	P6/7-SW3	15 Winter	30	+0%					3.089
1.011	Swale 7_HW4	15 Winter	30	+0%					2.492
13.000	School 01	30 Winter	30	+0%					4.021
13.001	School 02	15 Winter	30	+0%					3.520
13.002	School 03	15 Winter	30	+0%	30/15 Winter				3.436
14.000	School 04	15 Winter	30	+0%					3.534
13.003	School 04	15 Winter	30	+0%	30/15 Winter				3.227
1.012	Swale 7_HW5	15 Winter	30	+0%					2.517
15.000	P5/3_SW12	60 Winter	30	+0%	30/60 Winter				2.910
15.001	**P5/3_SW14**	60 Winter	30	+0%	30/15 Winter				2.908
15.002	P5/3_SW16	60 Winter	30	+0%	30/15 Winter				2.906
16.000	P6/3-SW1	15 Winter	30	+0%					3.322
16.001	P6/3-SW2	15 Winter	30	+0%					3.156
16.002	P6/3_SW3	60 Winter	30	+0%	30/60 Winter				2.909
15.003	P5/3_SW8	60 Winter	30	+0%	30/15 Winter				2.906
15.004	Swale 3_HW1	60 Winter	30	+0%			30/15 Winter	3	2.906
17.000	P5/3_SW10-Priv	15 Winter	30	+0%	30/15 Winter				2.921
17.001	P5/3_SW10-Priv	60 Winter	30	+0%	30/15 Winter				2.910
18.000	P5/3_SW08-Priv	15 Winter	30	+0%					3.244
18.001	P5/3_SW08-Priv	15 Winter	30	+0%	30/15 Winter				3.189
18.002	P5/3_SW08	60 Winter	30	+0%	30/15 Winter				2.908
19.000	P5/3_SW06	60 Winter	30	+0%	30/15 Winter				2.906
17.002	P5/3_SW10	60 Winter	30	+0%	30/15 Winter				2.906
20.000	P6/3-SW4	15 Winter	30	+0%					3.325
20.001	P6/3-SW5	15 Winter	30	+0%	30/15 Winter				3.233
20.002	P6/3-SW6	15 Winter	30	+0%					2.989
15.005	Swale 3_HW2	60 Winter	30	+0%					2.906
15.006	Swale 3_Bend	60 Winter	30	+0%					2.906
15.007	Swale 3_HW3	60 Winter	30	+0%	30/15 Winter				2.906
21.000	MAV_SW10/1	15 Winter	30	+0%	30/15 Winter				3.129
15.008	MAV_SW09	60 Winter	30	+0%					2.931
22.000	SW10a	15 Winter	30	+0%					3.596
22.001	SW10	30 Winter	30	+0%					3.494
23.000	P6/4_SW1	15 Winter	30	+0%					3.590
23.001	P6/4_SW2	30 Winter	30	+0%					3.494
15.009	Swale 4_HW1	30 Winter	30	+0%					3.488
24.000	P5/4 - IC	15 Winter	30	+0%	30/15 Winter				4.318
25.000	P5/4 - IC	15 Winter	30	+0%	30/15 Winter				3.987
24.001	Stub SWL4-HW2-1	15 Winter	30	+0%	30/15 Winter				3.827
24.002	SW10b	15 Winter	30	+0%	30/15 Winter				3.746
15.010	Swale 4_HW2	30 Winter	30	+0%					3.488
26.000	P6/4- SW3	15 Winter	30	+0%					3.590
26.001	P6/4- SW4	30 Winter	30	+0%					3.494
15.011	Swale 4_Crossing	30 Winter	30	+0%					3.487
15.012	Swale 4_Dummy	30 Winter	30	+0%					3.485
27.000	P6/4-SW6	15 Winter	30	+0%					3.591
27.001	P6/4-SW5	15 Winter	30	+0%					3.493
15.013	Swale 4-Crossing	30 Winter	30	+0%					3.482
15.014	Swale 4_HW6	30 Winter	30	+0%	30/15 Winter				3.479
28.000	Stub SW11-1	15 Winter	30	+0%	30/15 Winter				3.905
28.001	MAV SW11	15 Winter	30	+0%	30/15 Winter				3.852
28.002	MAV SW11a	15 Winter	30	+0%	30/15 Winter				3.677
29.000	P5/SW12-IC	15 Winter	30	+0%	30/15 Winter				4.081
29.001	P5/SW12-IC	15 Winter	30	+0%	30/15 Winter				3.834
30.000	P5/SW12-IC	15 Winter	30	+0%	30/15 Winter				3.715
29.002	Stub SW12-1	15 Winter	30	+0%	30/15 Winter				3.552
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Lion House Oriental Road Woking, GU22 8AR				Hampton Park South & East Central Wetland Catchment 03					
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Innovyze				Network 2020.1					
<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
9.003	P7/7-SW6	0.082	0.000	1.09			300.6	SURCHARGED	
8.002	Swale 7_HW2	-1.621	0.000	0.00			29.7	OK	
1.010	Swale 7_HW3	-1.621	0.000	0.00			38.9	OK	
12.000	P6/7-SW1	0.179	0.000	0.73			29.8	SURCHARGED	
12.001	P6/7-SW2	0.247	0.000	1.48			59.2	SURCHARGED	
12.002	P6/7-SW3	-0.161	0.000	0.43			88.5	OK	
1.011	Swale 7_HW4	-1.608	0.000	0.00			33.8	OK	
13.000	School 01	-0.179	0.000	0.34			29.6	OK	
13.001	School 02	-0.040	0.000	0.77			65.5	OK	
13.002	School 03	0.106	0.000	1.03			85.7	SURCHARGED	
14.000	School 04	-0.166	0.000	0.40			47.5	OK	
13.003	School 04	0.137	0.000	1.09			159.6	SURCHARGED	
1.012	Swale 7_HW5	-0.033	0.000	0.12			32.8	OK	
15.000	P5/3_SW12	0.085	0.000	0.22			8.3	SURCHARGED	
15.001	**P5/3_SW14**	0.208	0.000	0.22			14.7	SURCHARGED	
15.002	P5/3_SW16	0.431	0.000	0.23			22.0	SURCHARGED	
16.000	P6/3-SW1	-0.103	0.000	0.56			22.9	OK	
16.001	P6/3-SW2	-0.144	0.000	0.51			44.4	OK	
16.002	P6/3_SW3	0.049	0.000	0.27			35.1	SURCHARGED	
15.003	P5/3_S28	0.481	0.000	0.94			54.8	SURCHARGED	
15.004	Swale 3_HW1	-1.194	0.000	0.00	5.0		59.8	OK	
17.000	P5/3_S10-Priv	0.021	0.000	0.76			10.9	SURCHARGED	
17.001	P5/3_S10-Priv	0.210	0.000	0.63			11.2	SURCHARGED	
18.000	P5/3_SW08-Priv	-0.056	0.000	0.63			11.4	OK	
18.001	P5/3_SW08-Priv	0.039	0.000	1.04			22.5	SURCHARGED	
18.002	P5/3_SW08	0.233	0.000	0.42			17.6	SURCHARGED	
19.000	P5/3_SW06	0.231	0.000	0.14			5.5	SURCHARGED	
17.002	P5/3_SW10	0.356	0.000	0.41			39.8	SURCHARGED	
20.000	P6/3-SW4	-0.100	0.000	0.57			22.9	OK	
20.001	P6/3-SW5	0.008	0.000	1.03			43.1	SURCHARGED	
20.002	P6/3-SW6	-0.086	0.000	0.68			65.0	OK	
15.005	Swale 3_HW2	-1.194	0.000	0.01			87.1	OK	
15.006	Swale 3_Bend	-1.194	0.000	0.00			37.2	OK	
15.007	Swale 3_HW3	0.431	0.000	0.05			1.6	SURCHARGED	
21.000	MAV_SW10/1	0.164	0.000	1.58			30.5	SURCHARGED	
15.008	MAV_SW09	-0.844	0.000	0.00			0.0	OK	
22.000	SW10a	-0.129	0.000	0.38			17.1	OK	
22.001	SW10	-0.081	0.000	0.51			16.1	OK	
23.000	P6/4_SW1	-0.135	0.000	0.33			12.9	OK	
23.001	P6/4_SW2	-0.111	0.000	0.35			20.8	OK	
15.009	Swale 4_HW1	-0.612	0.000	0.01			41.6	OK	
24.000	P5/4 - IC	0.318	0.000	1.16			18.0	FLOOD RISK	
25.000	P5/4 - IC	0.237	0.000	1.27			19.9	SURCHARGED	
24.001	Stub SWL4-HW2-1	0.176	0.000	1.22			37.6	SURCHARGED	
24.002	SW10b	0.151	0.000	1.79			54.7	SURCHARGED	
15.010	Swale 4_HW2	-0.612	0.000	0.04			69.4	OK	
26.000	P6/4- SW3	-0.135	0.000	0.33			12.8	OK	
26.001	P6/4- SW4	-0.071	0.000	0.39			20.6	OK	
15.011	Swale 4_Crossing	-0.613	0.000	0.03			82.0	OK	
15.012	Swale 4_Dummy	-0.615	0.000	0.02			68.8	OK	
27.000	P6/4-SW6	-0.134	0.000	0.34			13.0	OK	
27.001	P6/4-SW5	-0.122	0.000	0.42			25.8	OK	
15.013	Swale 4-Crossing	-0.618	0.000	0.03			72.3	OK	
15.014	Swale 4_HW6	0.054	0.000	1.02			82.9	SURCHARGED	
28.000	Stub SW11-1	0.147	0.000	0.52			14.9	SURCHARGED	
28.001	MAV SW11	0.377	0.000	1.06			38.1	SURCHARGED	
28.002	MAV SW11a	0.387	0.000	0.80			63.5	SURCHARGED	
29.000	P5/SW12-IC	0.031	0.000	0.78			18.3	SURCHARGED	
29.001	P5/SW12-IC	0.384	0.000	0.92			30.4	SURCHARGED	
30.000	P5/SW12-IC	0.245	0.000	0.72			17.0	SURCHARGED	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
28.003	MAV_SW12	15 Winter	30	+0%	30/15 Winter				3.446
15.015	MAV_SW13	15 Winter	30	+0%	30/15 Winter				3.218
31.000	Gully-Low Point	15 Winter	30	+0%					3.741
31.001	MAV_SW14	15 Winter	30	+0%					3.478
31.002	MAV_SW15	15 Winter	30	+0%					3.223
1.013	MAV_SW16 (HB)	15 Winter	30	+0%	30/15 Winter				2.626
1.014	OUTFALL 03	30 Winter	30	+0%					1.804

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
28.003	MAV_SW12	0.516	0.000	1.80			116.0	SURCHARGED	
15.015	MAV_SW13	0.358	0.000	1.03			164.2	SURCHARGED	
31.000	Gully-Low Point	-0.089	0.000	0.35			9.9	OK	
31.001	MAV_SW14	-0.107	0.000	0.53			21.4	OK	
31.002	MAV_SW15	-0.112	0.000	0.48			32.8	OK	
1.013	MAV_SW16 (HB)	0.326	0.000	0.11			34.0	SURCHARGED	
1.014	OUTFALL 03	-0.296	0.000	0.06			34.0	OK	

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Lion House

Oriental Road

Woking, GU22 8AR

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File Outfall 03 Network_Swal...

Hampton Park

South & East Central Wetland

Catchment 03

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Network 2020.1

Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Offline Controls 2

Number of Time/Area Diagrams 2

Number of Online Controls 1

Number of Storage Structures 1

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

Data Type Catchment

FEH Rainfall Version 2013

Cv (Summer) 0.840

Site Location GB 502950 104450 TQ 02950 04450

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status ON

DVD Status OFF

Inertia Status ON

Profile(s) Winter

Duration(s) (mins) 120

Return Period(s) (years) 100

Climate Change (%) 0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	P6/5-SW1	120 Winter	100	+0%					3.498
1.001	P6/5-SW2	120 Winter	100	+0%					3.275
1.002	P6/5-SW3	120 Winter	100	+0%	100/120 Winter				3.141
1.003	Swale 5_HW1	120 Winter	100	+0%					3.120
2.000	P6/5-SW4	120 Winter	100	+0%					3.498
2.001	P6/5-SW5	120 Winter	100	+0%					3.309
2.002	P6/5-SW6	120 Winter	100	+0%	100/120 Winter				3.150
2.003	P6/5-SW7	120 Winter	100	+0%	100/120 Winter				3.125
3.000	P6/5-SW8	120 Winter	100	+0%					3.805
3.001	P6/5-SW9	120 Winter	100	+0%					3.573
3.002	P6/5-SW10	120 Winter	100	+0%					3.150
1.004	Swale 5_HW2	120 Winter	100	+0%					3.120
1.005	Swale 5_HW3	120 Winter	100	+0%	100/120 Winter				3.119
4.000	P6/6-SW11	120 Winter	100	+0%					3.105
5.000	P6/6-SW12	120 Winter	100	+0%					3.324
5.001	P6/6-SW13	120 Winter	100	+0%					3.140
1.006	P6/6-SW14	120 Winter	100	+0%	100/120 Winter				3.077
1.007	Swale 6_HW1	120 Winter	100	+0%					2.997
6.000	P6/6-SW15	120 Winter	100	+0%					3.910
6.001	P6/6-SW16	120 Winter	100	+0%					3.563
6.002	P6/6-SW17	120 Winter	100	+0%	100/120 Winter				3.023
7.000	P6/6-SW18	120 Winter	100	+0%					3.812
7.001	P6/6-SW19	120 Winter	100	+0%					3.652
7.002	P6/6-SW20	120 Winter	100	+0%					3.472
7.003	P6/6-SW21	120 Winter	100	+0%	100/120 Winter				3.017
1.008	Swale 6_HW2	120 Winter	100	+0%					2.996
1.009	Swale 6_HW3	120 Winter	100	+0%	100/120 Winter				2.995
8.000	P7/7-SW7	120 Winter	100	+0%					3.134
8.001	Swale 7 & Lake	120 Winter	100	+0%			100/120 Winter	1	2.828
9.000	P7/7-SW1	120 Winter	100	+0%					4.044
9.001	P7/7-SW2	120 Winter	100	+0%	100/120 Winter				3.708
10.000	P7/7-SW3	120 Winter	100	+0%					4.023
9.002	P7/7-SW4	120 Winter	100	+0%	100/120 Winter				3.377

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Innovyze	Network 2020.1	

Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	P6/5-SW1	-0.127	0.000	0.39			15.8	OK	
1.001	P6/5-SW2	-0.175	0.000	0.36			31.6	OK	
1.002	P6/5-SW3	0.071	0.000	0.29			45.2	SURCHARGED	
1.003	Swale 5_HW1	-0.980	0.000	0.00			56.0	OK	
2.000	P6/5-SW4	-0.127	0.000	0.39			15.8	OK	
2.001	P6/5-SW5	-0.076	0.000	0.77			31.6	OK	
2.002	P6/5-SW6	0.020	0.000	0.56			46.7	SURCHARGED	
2.003	P6/5-SW7	0.215	0.000	0.54			44.8	SURCHARGED	
3.000	P6/5-SW8	-0.120	0.000	0.45			20.3	OK	
3.001	P6/5-SW9	-0.052	0.000	0.95			40.5	OK	
3.002	P6/5-SW10	-0.150	0.000	0.36			60.6	OK	
1.004	Swale 5_HW2	-0.980	0.000	0.01			75.7	OK	
1.005	Swale 5_HW3	0.544	0.000	2.30			79.9	SURCHARGED	
4.000	P6/6-SW11	-0.060	0.000	0.48			23.6	OK	
5.000	P6/6-SW12	-0.176	0.000	0.36			23.5	OK	
5.001	P6/6-SW13	-0.130	0.000	0.61			46.9	OK	
1.006	P6/6-SW14	0.502	0.000	3.41			120.2	SURCHARGED	
1.007	Swale 6_HW1	-1.103	0.000	0.01			132.5	OK	
6.000	P6/6-SW15	-0.115	0.000	0.48			23.6	OK	
6.001	P6/6-SW16	-0.072	0.000	0.80			47.1	OK	
6.002	P6/6-SW17	0.123	0.000	0.98			69.2	SURCHARGED	
7.000	P6/6-SW18	-0.113	0.000	0.50			19.7	OK	
7.001	P6/6-SW19	-0.043	0.000	1.00			39.3	OK	
7.002	P6/6-SW20	-0.063	0.000	0.86			59.0	OK	
7.003	P6/6-SW21	0.117	0.000	0.49			77.5	SURCHARGED	
1.008	Swale 6_HW2	-1.104	0.000	0.01			213.0	OK	
1.009	Swale 6_HW3	0.420	0.000	1.79			183.7	SURCHARGED	
8.000	P7/7-SW7	-0.091	0.000	0.66			40.9	OK	
8.001	Swale 7 & Lake	-1.272	0.000	0.00	5.0		11.7	OK	
9.000	P7/7-SW1	-0.156	0.000	0.47			40.8	OK	
9.001	P7/7-SW2	0.028	0.000	0.91			78.9	SURCHARGED	
10.000	P7/7-SW3	-0.177	0.000	0.35			40.9	OK	
9.002	P7/7-SW4	0.022	0.000	1.05			157.6	SURCHARGED	

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Innovyze				Network 2020.1					
Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
11.000	P7/7-SW5	120 Winter	100	+0%					3.816
9.003	P7/7-SW6	120 Winter	100	+0%					2.906
8.002	Swale 7_HW2	120 Winter	100	+0%					2.828
1.010	Swale 7_HW3	120 Winter	100	+0%					2.828
12.000	P6/7-SW1	120 Winter	100	+0%					3.410
12.001	P6/7-SW2	120 Winter	100	+0%					3.329
12.002	P6/7-SW3	120 Winter	100	+0%					3.059
1.011	Swale 7_HW4	120 Winter	100	+0%					2.828
13.000	School 01	120 Winter	100	+0%					4.016
13.001	School 02	120 Winter	100	+0%					3.437
13.002	School 03	120 Winter	100	+0%					3.324
14.000	School 04	120 Winter	100	+0%					3.500
13.003	School 04	120 Winter	100	+0%	100/120 Winter				3.094
1.012	Swale 7_HW5	120 Winter	100	+0%	100/120 Winter				2.828
15.000	P5/3_SW12	120 Winter	100	+0%	100/120 Winter				3.296
15.001	**P5/3_SW14**	120 Winter	100	+0%	100/120 Winter				3.294
15.002	P5/3_SW16	120 Winter	100	+0%	100/120 Winter				3.290
16.000	P6/3-SW1	120 Winter	100	+0%					3.306
16.001	P6/3-SW2	120 Winter	100	+0%	100/120 Winter				3.301
16.002	P6/3_SW3	120 Winter	100	+0%	100/120 Winter				3.295
15.003	P5/3_S28	120 Winter	100	+0%	100/120 Winter				3.288
15.004	Swale 3_HW1	120 Winter	100	+0%			100/120 Winter	1	3.286
17.000	P5/3_S10-Priv	120 Winter	100	+0%	100/120 Winter				3.302
17.001	P5/3_S10-Priv	120 Winter	100	+0%	100/120 Winter				3.296
18.000	P5/3_SW08-Priv	120 Winter	100	+0%	100/120 Winter				3.310
18.001	P5/3_SW08-Priv	120 Winter	100	+0%	100/120 Winter				3.306
18.002	P5/3_SW08	120 Winter	100	+0%	100/120 Winter				3.294
19.000	P5/3_SW06	120 Winter	100	+0%	100/120 Winter				3.291
17.002	P5/3_SW10	120 Winter	100	+0%	100/120 Winter				3.289
20.000	P6/3-SW4	120 Winter	100	+0%					3.309
20.001	P6/3-SW5	120 Winter	100	+0%	100/120 Winter				3.303
20.002	P6/3-SW6	120 Winter	100	+0%	100/120 Winter				3.295
15.005	Swale 3_HW2	120 Winter	100	+0%					3.287
15.006	Swale 3_Bend	120 Winter	100	+0%					3.288
15.007	Swale 3_HW3	120 Winter	100	+0%	100/120 Winter				3.289
21.000	MAV_SW10/1	120 Winter	100	+0%	100/120 Winter				3.445
15.008	MAV_SW09	120 Winter	100	+0%					3.655
22.000	SW10a	120 Winter	100	+0%					3.586
22.001	SW10	120 Winter	100	+0%					3.575
23.000	P6/4_SW1	120 Winter	100	+0%					3.584
23.001	P6/4_SW2	120 Winter	100	+0%					3.575
15.009	Swale 4_HW1	120 Winter	100	+0%					3.568
24.000	P5/4 - IC	120 Winter	100	+0%					3.955
25.000	P5/4 - IC	120 Winter	100	+0%					3.724
24.001	Stub SWL4-HW2-1	120 Winter	100	+0%	100/120 Winter				3.658
24.002	SW10b	120 Winter	100	+0%	100/120 Winter				3.620
15.010	Swale 4_HW2	120 Winter	100	+0%					3.568
26.000	P6/4- SW3	120 Winter	100	+0%					3.586
26.001	P6/4- SW4	120 Winter	100	+0%	100/120 Winter				3.576
15.011	Swale 4_Crossing	120 Winter	100	+0%					3.567
15.012	Swale 4_Dummy	120 Winter	100	+0%					3.566
27.000	P6/4-SW6	120 Winter	100	+0%					3.580
27.001	P6/4-SW5	120 Winter	100	+0%					3.572
15.013	Swale 4-Crossing	120 Winter	100	+0%					3.565
15.014	Swale 4_HW6	120 Winter	100	+0%	100/120 Winter				3.564
28.000	Stub SW11-1	120 Winter	100	+0%					3.667
28.001	MAV SW11	120 Winter	100	+0%	100/120 Winter				3.556
28.002	MAV SW11a	120 Winter	100	+0%	100/120 Winter				3.456
29.000	P5/SW12-IC	120 Winter	100	+0%					3.974
29.001	P5/SW12-IC	120 Winter	100	+0%	100/120 Winter				3.548
30.000	P5/SW12-IC	120 Winter	100	+0%					3.466
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Lion House Oriental Road Woking, GU22 8AR				Hampton Park South & East Central Wetland Catchment 03					
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Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
11.000	P7/7-SW5	-0.184	0.000	0.32			40.9	OK	
9.003	P7/7-SW6	-0.069	0.000	0.84			233.3	OK	
8.002	Swale 7_HW2	-1.272	0.000	0.00			12.6	OK	
1.010	Swale 7_HW3	-1.272	0.000	0.00			25.8	OK	
12.000	P6/7-SW1	-0.115	0.000	0.48			19.7	OK	
12.001	P6/7-SW2	-0.046	0.000	0.99			39.4	OK	
12.002	P6/7-SW3	-0.191	0.000	0.29			59.1	OK	
1.011	Swale 7_HW4	-1.272	0.000	0.00			20.5	OK	
13.000	School 01	-0.184	0.000	0.32			27.8	OK	
13.001	School 02	-0.123	0.000	0.65			55.7	OK	
13.002	School 03	-0.006	0.000	0.98			81.5	OK	
14.000	School 04	-0.200	0.000	0.24			28.8	OK	
13.003	School 04	0.004	0.000	0.92			134.5	SURCHARGED	
1.012	Swale 7_HW5	0.278	0.000	0.07			21.1	SURCHARGED	
15.000	P5/3_SW12	0.471	0.000	0.24			8.9	SURCHARGED	
15.001	**P5/3_SW14**	0.594	0.000	0.26			17.9	SURCHARGED	
15.002	P5/3_SW16	0.815	0.000	0.27			26.8	SURCHARGED	
16.000	P6/3-SW1	-0.119	0.000	0.34			13.8	OK	
16.001	P6/3-SW2	0.001	0.000	0.32			27.6	SURCHARGED	
16.002	P6/3_SW3	0.435	0.000	0.28			37.6	SURCHARGED	
15.003	P5/3_S28	0.863	0.000	1.10			64.1	SURCHARGED	
15.004	Swale 3_HW1	-0.814	0.000	0.01	5.0		154.3	OK	
17.000	P5/3_S10-Priv	0.402	0.000	0.46			6.6	SURCHARGED	
17.001	P5/3_S10-Priv	0.596	0.000	0.74			13.1	SURCHARGED	
18.000	P5/3_SW08-Priv	0.010	0.000	0.38			6.8	SURCHARGED	
18.001	P5/3_SW08-Priv	0.156	0.000	0.60			13.0	SURCHARGED	
18.002	P5/3_SW08	0.619	0.000	0.45			18.9	SURCHARGED	
19.000	P5/3_SW06	0.616	0.000	0.16			6.3	SURCHARGED	
17.002	P5/3_SW10	0.739	0.000	0.46			44.8	SURCHARGED	
20.000	P6/3-SW4	-0.116	0.000	0.35			13.8	OK	
20.001	P6/3-SW5	0.078	0.000	0.66			27.6	SURCHARGED	
20.002	P6/3-SW6	0.220	0.000	0.42			39.7	SURCHARGED	
15.005	Swale 3_HW2	-0.813	0.000	0.01			97.3	OK	
15.006	Swale 3_Bend	-0.812	0.000	0.00			57.4	OK	
15.007	Swale 3_HW3	0.814	0.000	0.67			22.7	SURCHARGED	
21.000	MAV_SW10/1	0.480	0.000	0.98			18.8	SURCHARGED	
15.008	MAV_SW09	-0.120	0.000	0.10			16.9	OK	
22.000	SW10a	-0.139	0.000	0.22			10.1	OK	
22.001	SW10	0.000	0.000	0.36			11.4	OK	
23.000	P6/4_SW1	-0.141	0.000	0.20			7.7	OK	
23.001	P6/4_SW2	-0.030	0.000	0.25			14.8	OK	
15.009	Swale 4_HW1	-0.532	0.000	0.01			29.5	OK	
24.000	P5/4 - IC	-0.045	0.000	0.83			12.9	OK	
25.000	P5/4 - IC	-0.026	0.000	0.81			12.7	OK	
24.001	Stub SWL4-HW2-1	0.007	0.000	0.83			25.6	SURCHARGED	
24.002	SW10b	0.025	0.000	1.23			37.6	SURCHARGED	
15.010	Swale 4_HW2	-0.532	0.000	0.03			56.7	OK	
26.000	P6/4- SW3	-0.139	0.000	0.20			7.7	OK	
26.001	P6/4- SW4	0.011	0.000	0.27			14.5	SURCHARGED	
15.011	Swale 4_Crossing	-0.533	0.000	0.03			68.9	OK	
15.012	Swale 4_Dummy	-0.534	0.000	0.02			62.7	OK	
27.000	P6/4-SW6	-0.145	0.000	0.20			7.7	OK	
27.001	P6/4-SW5	-0.043	0.000	0.25			15.2	OK	
15.013	Swale 4-Crossing	-0.535	0.000	0.03			70.9	OK	
15.014	Swale 4_HW6	0.139	0.000	0.96			78.1	SURCHARGED	
28.000	Stub SW11-1	-0.091	0.000	0.33			9.4	OK	
28.001	MAV SW11	0.081	0.000	0.75			27.0	SURCHARGED	
28.002	MAV SW11a	0.166	0.000	0.63			49.7	SURCHARGED	
29.000	P5/SW12-IC	-0.076	0.000	0.49			11.4	OK	
29.001	P5/SW12-IC	0.098	0.000	0.67			21.9	SURCHARGED	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged	Flooded	Flow / Overflow		Half Drain	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)		
30.000	P5/SW12-IC	-0.004	0.000	0.48			11.3	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
29.002	Stub SW12-1	120 Winter	100	+0%	100/120 Winter				3.380
28.003	MAV SW12	120 Winter	100	+0%	100/120 Winter				3.319
15.015	MAV_SW13	120 Winter	100	+0%	100/120 Winter				3.188
31.000	Gully-Low Point	120 Winter	100	+0%					3.726
31.001	MAV_SW14	120 Winter	100	+0%					3.447
31.002	MAV_SW15	120 Winter	100	+0%					3.193
1.013	MAV_SW16(HB)	120 Winter	100	+0%	100/120 Winter				2.882
1.014	OUTFALL 03	120 Winter	100	+0%					1.804

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
29.002	Stub SW12-1	0.255	0.000	0.57			32.3	SURCHARGED	
28.003	MAV SW12	0.389	0.000	1.40			90.2	SURCHARGED	
15.015	MAV_SW13	0.328	0.000	0.95			151.8	SURCHARGED	
31.000	Gully-Low Point	-0.104	0.000	0.21			5.9	OK	
31.001	MAV_SW14	-0.138	0.000	0.32			12.9	OK	
31.002	MAV_SW15	-0.142	0.000	0.29			19.9	OK	
1.013	MAV_SW16(HB)	0.582	0.000	0.11			34.0	SURCHARGED	
1.014	OUTFALL 03	-0.296	0.000	0.06			34.0	OK	

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Lion House

Oriental Road

Woking, GU22 8AR

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Offline Controls 2

Number of Time/Area Diagrams 2

Number of Online Controls 1

Number of Storage Structures 1

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

Data Type Catchment

FEH Rainfall Version 2013

Cv (Summer) 0.840

Site Location GB 502950 104450

TQ 02950 04450

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5

Second Increment (Extended)

DTS Status ON

DVD Status OFF

Inertia Status ON

Profile(s) Winter

Duration(s) (mins) 120

Return Period(s) (years) 100

Climate Change (%) 30

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	P6/5-SW1	120 Winter	100	+30%					3.514
1.001	P6/5-SW2	120 Winter	100	+30%					3.361
1.002	P6/5-SW3	120 Winter	100	+30%	100/120 Winter				3.335
1.003	Swale 5_HW1	120 Winter	100	+30%					3.312
2.000	P6/5-SW4	120 Winter	100	+30%					3.575
2.001	P6/5-SW5	120 Winter	100	+30%	100/120 Winter				3.527
2.002	P6/5-SW6	120 Winter	100	+30%	100/120 Winter				3.346
2.003	P6/5-SW7	120 Winter	100	+30%	100/120 Winter				3.317
3.000	P6/5-SW8	120 Winter	100	+30%					3.898
3.001	P6/5-SW9	120 Winter	100	+30%	100/120 Winter				3.808
3.002	P6/5-SW10	120 Winter	100	+30%	100/120 Winter				3.344
1.004	Swale 5_HW2	120 Winter	100	+30%					3.311
1.005	Swale 5_HW3	120 Winter	100	+30%	100/120 Winter				3.311
4.000	P6/6-SW11	120 Winter	100	+30%	100/120 Winter				3.297
5.000	P6/6-SW12	120 Winter	100	+30%					3.373
5.001	P6/6-SW13	120 Winter	100	+30%	100/120 Winter				3.336
1.006	P6/6-SW14	120 Winter	100	+30%	100/120 Winter				3.266
1.007	Swale 6_HW1	120 Winter	100	+30%					3.173
6.000	P6/6-SW15	120 Winter	100	+30%					4.014
6.001	P6/6-SW16	120 Winter	100	+30%	100/120 Winter				3.883
6.002	P6/6-SW17	120 Winter	100	+30%	100/120 Winter				3.202
7.000	P6/6-SW18	120 Winter	100	+30%	100/120 Winter				4.201
7.001	P6/6-SW19	120 Winter	100	+30%	100/120 Winter				4.122
7.002	P6/6-SW20	120 Winter	100	+30%	100/120 Winter				3.895
7.003	P6/6-SW21	120 Winter	100	+30%	100/120 Winter				3.210
1.008	Swale 6_HW2	120 Winter	100	+30%					3.172
1.009	Swale 6_HW3	120 Winter	100	+30%	100/120 Winter				3.171
8.000	P7/7-SW7	120 Winter	100	+30%					3.168
8.001	Swale 7 & Lake	120 Winter	100	+30%			100/120 Winter	1	2.997
9.000	P7/7-SW1	120 Winter	100	+30%	100/120 Winter				4.506
9.001	P7/7-SW2	120 Winter	100	+30%	100/120 Winter				4.343
10.000	P7/7-SW3	120 Winter	100	+30%					4.042
9.002	P7/7-SW4	120 Winter	100	+30%	100/120 Winter				3.841

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)		
1.000	P6/5-SW1	-0.111	0.000	0.51			20.6	OK	
1.001	P6/5-SW2	-0.089	0.000	0.47			41.1	OK	
1.002	P6/5-SW3	0.265	0.000	0.37			57.4	SURCHARGED	
1.003	Swale 5_HW1	-0.788	0.000	0.00			72.0	OK	
2.000	P6/5-SW4	-0.050	0.000	0.51			20.6	OK	
2.001	P6/5-SW5	0.142	0.000	0.92			37.8	SURCHARGED	
2.002	P6/5-SW6	0.216	0.000	0.66			55.4	SURCHARGED	
2.003	P6/5-SW7	0.407	0.000	0.66			54.8	SURCHARGED	
3.000	P6/5-SW8	-0.027	0.000	0.57			25.7	OK	
3.001	P6/5-SW9	0.183	0.000	1.19			50.7	SURCHARGED	
3.002	P6/5-SW10	0.044	0.000	0.44			74.0	SURCHARGED	
1.004	Swale 5_HW2	-0.789	0.000	0.01			85.4	OK	
1.005	Swale 5_HW3	0.736	0.000	2.45			85.1	SURCHARGED	
4.000	P6/6-SW11	0.132	0.000	0.60			29.5	SURCHARGED	
5.000	P6/6-SW12	-0.127	0.000	0.46			30.6	OK	
5.001	P6/6-SW13	0.066	0.000	0.74			57.0	SURCHARGED	
1.006	P6/6-SW14	0.691	0.000	3.83			135.0	SURCHARGED	
1.007	Swale 6_HW1	-0.927	0.000	0.01			150.8	OK	
6.000	P6/6-SW15	-0.011	0.000	0.62			30.4	OK	
6.001	P6/6-SW16	0.248	0.000	0.97			57.1	SURCHARGED	
6.002	P6/6-SW17	0.302	0.000	1.21			85.6	SURCHARGED	
7.000	P6/6-SW18	0.276	0.000	0.59			23.5	SURCHARGED	
7.001	P6/6-SW19	0.427	0.000	1.20			47.0	SURCHARGED	
7.002	P6/6-SW20	0.360	0.000	1.03			70.5	SURCHARGED	
7.003	P6/6-SW21	0.310	0.000	0.59			93.7	SURCHARGED	
1.008	Swale 6_HW2	-0.928	0.000	0.01			242.0	OK	
1.009	Swale 6_HW3	0.596	0.000	1.94			198.4	SURCHARGED	
8.000	P7/7-SW7	-0.057	0.000	0.86			53.1	OK	
8.001	Swale 7 & Lake	-1.103	0.000	0.00	5.0		12.5	OK	
9.000	P7/7-SW1	0.306	0.000	0.56			48.9	SURCHARGED	
9.001	P7/7-SW2	0.663	0.000	1.12			97.1	SURCHARGED	
10.000	P7/7-SW3	-0.158	0.000	0.46			53.1	OK	
9.002	P7/7-SW4	0.486	0.000	1.30			195.6	SURCHARGED	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
11.000	P7/7-SW5	120 Winter	100	+30%					3.835
9.003	P7/7-SW6	120 Winter	100	+30%	100/120 Winter				3.200
8.002	Swale 7_HW2	120 Winter	100	+30%					2.997
1.010	Swale 7_HW3	120 Winter	100	+30%					2.997
12.000	P6/7-SW1	120 Winter	100	+30%	100/120 Winter				3.548
12.001	P6/7-SW2	120 Winter	100	+30%	100/120 Winter				3.490
12.002	P6/7-SW3	120 Winter	100	+30%					3.076
1.011	Swale 7_HW4	120 Winter	100	+30%					2.997
13.000	School 01	120 Winter	100	+30%					4.064
13.001	School 02	120 Winter	100	+30%	100/120 Winter				3.962
13.002	School 03	120 Winter	100	+30%	100/120 Winter				3.812
14.000	School 04	120 Winter	100	+30%					3.515
13.003	School 04	120 Winter	100	+30%	100/120 Winter				3.459
1.012	Swale 7_HW5	120 Winter	100	+30%	100/120 Winter				2.997
15.000	P5/3_SW12	120 Winter	100	+30%	100/120 Winter				3.513
15.001	**P5/3_SW14**	120 Winter	100	+30%	100/120 Winter				3.510
15.002	P5/3_SW16	120 Winter	100	+30%	100/120 Winter				3.507
16.000	P6/3-SW1	120 Winter	100	+30%	100/120 Winter				3.524
16.001	P6/3-SW2	120 Winter	100	+30%	100/120 Winter				3.519
16.002	P6/3_SW3	120 Winter	100	+30%	100/120 Winter				3.511
15.003	P5/3_S28	120 Winter	100	+30%	100/120 Winter				3.506
15.004	Swale 3_HW1	120 Winter	100	+30%			100/120 Winter	1	3.505
17.000	P5/3_S10-Priv	120 Winter	100	+30%	100/120 Winter				3.520
17.001	P5/3_S10-Priv	120 Winter	100	+30%	100/120 Winter				3.513
18.000	P5/3_SW08-Priv	120 Winter	100	+30%	100/120 Winter				3.544
18.001	P5/3_SW08-Priv	120 Winter	100	+30%	100/120 Winter				3.524
18.002	P5/3_SW08	120 Winter	100	+30%	100/120 Winter				3.511
19.000	P5/3_SW06	120 Winter	100	+30%	100/120 Winter				3.508
17.002	P5/3_SW10	120 Winter	100	+30%	100/120 Winter				3.506
20.000	P6/3-SW4	120 Winter	100	+30%	100/120 Winter				3.527
20.001	P6/3-SW5	120 Winter	100	+30%	100/120 Winter				3.521
20.002	P6/3-SW6	120 Winter	100	+30%	100/120 Winter				3.512
15.005	Swale 3_HW2	120 Winter	100	+30%					3.505
15.006	Swale 3_Bend	120 Winter	100	+30%					3.506
15.007	Swale 3_HW3	120 Winter	100	+30%	100/120 Winter				3.506
21.000	MAV_SW10/1	120 Winter	100	+30%	100/120 Winter				3.674
15.008	MAV_SW09	120 Winter	100	+30%	100/120 Winter				3.813
22.000	SW10a	120 Winter	100	+30%	100/120 Winter				3.733
22.001	SW10	120 Winter	100	+30%	100/120 Winter				3.722
23.000	P6/4_SW1	120 Winter	100	+30%	100/120 Winter				3.731
23.001	P6/4_SW2	120 Winter	100	+30%	100/120 Winter				3.722
15.009	Swale 4_HW1	120 Winter	100	+30%					3.719
24.000	P5/4 - IC	120 Winter	100	+30%	100/120 Winter				4.192
25.000	P5/4 - IC	120 Winter	100	+30%	100/120 Winter				3.926
24.001	Stub SWL4-HW2-1	120 Winter	100	+30%	100/120 Winter				3.837
24.002	SW10b	120 Winter	100	+30%	100/120 Winter				3.789
15.010	Swale 4_HW2	120 Winter	100	+30%					3.714
26.000	P6/4- SW3	120 Winter	100	+30%	100/120 Winter				3.732
26.001	P6/4- SW4	120 Winter	100	+30%	100/120 Winter				3.722
15.011	Swale 4_Crossing	120 Winter	100	+30%					3.714
15.012	Swale 4_Dummy	120 Winter	100	+30%					3.712
27.000	P6/4-SW6	120 Winter	100	+30%	100/120 Winter				3.726
27.001	P6/4-SW5	120 Winter	100	+30%	100/120 Winter				3.717
15.013	Swale 4-Crossing	120 Winter	100	+30%					3.710
15.014	Swale 4_HW6	120 Winter	100	+30%	100/120 Winter				3.709
28.000	Stub SW11-1	120 Winter	100	+30%	100/120 Winter				4.044
28.001	MAV SW11	120 Winter	100	+30%	100/120 Winter				4.000
28.002	MAV SW11a	120 Winter	100	+30%	100/120 Winter				3.833
29.000	P5/SW12-IC	120 Winter	100	+30%	100/120 Winter				4.176
29.001	P5/SW12-IC	120 Winter	100	+30%	100/120 Winter				3.975
30.000	P5/SW12-IC	120 Winter	100	+30%	100/120 Winter				3.849
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
29.002	Stub SW12-1	120 Winter	100	+30%	100/120 Winter				3.707
28.003	MAV SW12	120 Winter	100	+30%	100/120 Winter				3.609
15.015	MAV_SW13	120 Winter	100	+30%	100/120 Winter				3.396
31.000	Gully-Low Point	120 Winter	100	+30%					3.733
31.001	MAV_SW14	120 Winter	100	+30%					3.460
31.002	MAV_SW15	120 Winter	100	+30%					3.206
1.013	MAV_SW16 (HB)	120 Winter	100	+30%	100/120 Winter				3.010
1.014	OUTFALL 03	120 Winter	100	+30%					1.804

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
29.002	Stub SW12-1	0.582	0.000	0.72			40.8	SURCHARGED	
28.003	MAV SW12	0.679	0.000	1.79			115.1	SURCHARGED	
15.015	MAV_SW13	0.536	0.000	1.04			167.0	SURCHARGED	
31.000	Gully-Low Point	-0.097	0.000	0.27			7.7	OK	
31.001	MAV_SW14	-0.125	0.000	0.41			16.8	OK	
31.002	MAV_SW15	-0.129	0.000	0.38			25.9	OK	
1.013	MAV_SW16 (HB)	0.710	0.000	0.11			34.0	SURCHARGED	
1.014	OUTFALL 03	-0.296	0.000	0.06			34.0	OK	

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South & East Central Wetland

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Micro Drainage

Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Offline Controls 2

Number of Time/Area Diagrams 2

Number of Online Controls 1

Number of Storage Structures 1

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

Data Type Catchment

FEH Rainfall Version 2013

Cv (Summer) 0.840

Site Location GB 502950 104450 TQ 02950 04450

Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status ON

DVD Status OFF

Inertia Status ON

Profile(s) Winter

Duration(s) (mins) 120

Return Period(s) (years) 100

Climate Change (%) 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	P6/5-SW1	120 Winter	100	+40%					3.519
1.001	P6/5-SW2	120 Winter	100	+40%					3.425
1.002	P6/5-SW3	120 Winter	100	+40%	100/120 Winter				3.398
1.003	Swale 5_HW1	120 Winter	100	+40%					3.375
2.000	P6/5-SW4	120 Winter	100	+40%	100/120 Winter				3.689
2.001	P6/5-SW5	120 Winter	100	+40%	100/120 Winter				3.636
2.002	P6/5-SW6	120 Winter	100	+40%	100/120 Winter				3.410
2.003	P6/5-SW7	120 Winter	100	+40%	100/120 Winter				3.379
3.000	P6/5-SW8	120 Winter	100	+40%	100/120 Winter				4.051
3.001	P6/5-SW9	120 Winter	100	+40%	100/120 Winter				3.950
3.002	P6/5-SW10	120 Winter	100	+40%	100/120 Winter				3.412
1.004	Swale 5_HW2	120 Winter	100	+40%					3.374
1.005	Swale 5_HW3	120 Winter	100	+40%	100/120 Winter				3.373
4.000	P6/6-SW11	120 Winter	100	+40%	100/120 Winter				3.358
5.000	P6/6-SW12	120 Winter	100	+40%					3.453
5.001	P6/6-SW13	120 Winter	100	+40%	100/120 Winter				3.410
1.006	P6/6-SW14	120 Winter	100	+40%	100/120 Winter				3.326
1.007	Swale 6_HW1	120 Winter	100	+40%					3.229
6.000	P6/6-SW15	120 Winter	100	+40%	100/120 Winter				4.205
6.001	P6/6-SW16	120 Winter	100	+40%	100/120 Winter				4.055
6.002	P6/6-SW17	120 Winter	100	+40%	100/120 Winter				3.265
7.000	P6/6-SW18	120 Winter	100	+40%	100/120 Winter				4.424
7.001	P6/6-SW19	120 Winter	100	+40%	100/120 Winter				4.332
7.002	P6/6-SW20	120 Winter	100	+40%	100/120 Winter				4.070
7.003	P6/6-SW21	120 Winter	100	+40%	100/120 Winter				3.267
1.008	Swale 6_HW2	120 Winter	100	+40%					3.227
1.009	Swale 6_HW3	120 Winter	100	+40%	100/120 Winter				3.226
8.000	P7/7-SW7	120 Winter	100	+40%	100/120 Winter				3.283
8.001	Swale 7 & Lake	120 Winter	100	+40%			100/120 Winter	1	3.055
9.000	P7/7-SW1	120 Winter	100	+40%	100/120 Winter				4.812
9.001	P7/7-SW2	120 Winter	100	+40%	100/120 Winter				4.624
10.000	P7/7-SW3	120 Winter	100	+40%	100/120 Winter				4.233
9.002	P7/7-SW4	120 Winter	100	+40%	100/120 Winter				4.046

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Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	P6/5-SW1	-0.106	0.000	0.55			22.2	OK	
1.001	P6/5-SW2	-0.025	0.000	0.51			44.3	OK	
1.002	P6/5-SW3	0.328	0.000	0.40			62.5	SURCHARGED	
1.003	Swale 5_HW1	-0.725	0.000	0.00			78.1	OK	
2.000	P6/5-SW4	0.064	0.000	0.53			21.5	SURCHARGED	
2.001	P6/5-SW5	0.251	0.000	0.98			40.1	SURCHARGED	
2.002	P6/5-SW6	0.280	0.000	0.71			59.7	SURCHARGED	
2.003	P6/5-SW7	0.469	0.000	0.71			59.3	SURCHARGED	
3.000	P6/5-SW8	0.126	0.000	0.59			26.9	SURCHARGED	
3.001	P6/5-SW9	0.325	0.000	1.25			53.4	SURCHARGED	
3.002	P6/5-SW10	0.112	0.000	0.46			78.3	SURCHARGED	
1.004	Swale 5_HW2	-0.726	0.000	0.01			87.4	OK	
1.005	Swale 5_HW3	0.798	0.000	2.50			86.9	SURCHARGED	
4.000	P6/6-SW11	0.193	0.000	0.65			31.8	SURCHARGED	
5.000	P6/6-SW12	-0.047	0.000	0.49			32.7	OK	
5.001	P6/6-SW13	0.140	0.000	0.77			59.6	SURCHARGED	
1.006	P6/6-SW14	0.751	0.000	3.97			139.9	SURCHARGED	
1.007	Swale 6_HW1	-0.871	0.000	0.01			156.8	OK	
6.000	P6/6-SW15	0.180	0.000	0.63			31.2	SURCHARGED	
6.001	P6/6-SW16	0.420	0.000	1.03			60.9	SURCHARGED	
6.002	P6/6-SW17	0.365	0.000	1.28			91.0	SURCHARGED	
7.000	P6/6-SW18	0.499	0.000	0.63			25.2	SURCHARGED	
7.001	P6/6-SW19	0.637	0.000	1.28			50.4	SURCHARGED	
7.002	P6/6-SW20	0.535	0.000	1.11			75.6	SURCHARGED	
7.003	P6/6-SW21	0.367	0.000	0.63			100.6	SURCHARGED	
1.008	Swale 6_HW2	-0.873	0.000	0.01			251.3	OK	
1.009	Swale 6_HW3	0.651	0.000	1.97			202.4	SURCHARGED	
8.000	P7/7-SW7	0.058	0.000	0.89			55.4	SURCHARGED	
8.001	Swale 7 & Lake	-1.045	0.000	0.00	5.0		10.6	OK	
9.000	P7/7-SW1	0.612	0.000	0.60			52.5	FLOOD RISK	
9.001	P7/7-SW2	0.944	0.000	1.20			104.2	FLOOD RISK	
10.000	P7/7-SW3	0.033	0.000	0.48			56.3	SURCHARGED	
9.002	P7/7-SW4	0.691	0.000	1.39			208.7	SURCHARGED	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
11.000	P7/7-SW5	120 Winter	100	+40%					3.841
9.003	P7/7-SW6	120 Winter	100	+40%	100/120 Winter				3.311
8.002	Swale 7_HW2	120 Winter	100	+40%					3.055
1.010	Swale 7_HW3	120 Winter	100	+40%					3.056
12.000	P6/7-SW1	120 Winter	100	+40%	100/120 Winter				3.609
12.001	P6/7-SW2	120 Winter	100	+40%	100/120 Winter				3.541
12.002	P6/7-SW3	120 Winter	100	+40%					3.081
1.011	Swale 7_HW4	120 Winter	100	+40%					3.056
13.000	School 01	120 Winter	100	+40%	100/120 Winter				4.292
13.001	School 02	120 Winter	100	+40%	100/120 Winter				4.175
13.002	School 03	120 Winter	100	+40%	100/120 Winter				4.002
14.000	School 04	120 Winter	100	+40%					3.653
13.003	School 04	120 Winter	100	+40%	100/120 Winter				3.598
1.012	Swale 7_HW5	120 Winter	100	+40%	100/120 Winter				3.056
15.000	P5/3_SW12	120 Winter	100	+40%	100/120 Winter				3.574
15.001	**P5/3_SW14**	120 Winter	100	+40%	100/120 Winter				3.570
15.002	P5/3_SW16	120 Winter	100	+40%	100/120 Winter				3.567
16.000	P6/3-SW1	120 Winter	100	+40%	100/120 Winter				3.586
16.001	P6/3-SW2	120 Winter	100	+40%	100/120 Winter				3.580
16.002	P6/3_SW3	120 Winter	100	+40%	100/120 Winter				3.572
15.003	P5/3_S28	120 Winter	100	+40%	100/120 Winter				3.566
15.004	Swale 3_HW1	120 Winter	100	+40%			100/120 Winter	1	3.566
17.000	P5/3_S10-Priv	120 Winter	100	+40%	100/120 Winter				3.581
17.001	P5/3_S10-Priv	120 Winter	100	+40%	100/120 Winter				3.574
18.000	P5/3_SW08-Priv	120 Winter	100	+40%	100/120 Winter				3.641
18.001	P5/3_SW08-Priv	120 Winter	100	+40%	100/120 Winter				3.608
18.002	P5/3_SW08	120 Winter	100	+40%	100/120 Winter				3.571
19.000	P5/3_SW06	120 Winter	100	+40%	100/120 Winter				3.568
17.002	P5/3_SW10	120 Winter	100	+40%	100/120 Winter				3.566
20.000	P6/3-SW4	120 Winter	100	+40%	100/120 Winter				3.589
20.001	P6/3-SW5	120 Winter	100	+40%	100/120 Winter				3.582
20.002	P6/3-SW6	120 Winter	100	+40%	100/120 Winter				3.572
15.005	Swale 3_HW2	120 Winter	100	+40%					3.566
15.006	Swale 3_Bend	120 Winter	100	+40%					3.566
15.007	Swale 3_HW3	120 Winter	100	+40%	100/120 Winter				3.567
21.000	MAV_SW10/1	120 Winter	100	+40%	100/120 Winter				3.739
15.008	MAV_SW09	120 Winter	100	+40%	100/120 Winter				3.856
22.000	SW10a	120 Winter	100	+40%	100/120 Winter				3.778
22.001	SW10	120 Winter	100	+40%	100/120 Winter				3.766
23.000	P6/4_SW1	120 Winter	100	+40%	100/120 Winter				3.776
23.001	P6/4_SW2	120 Winter	100	+40%	100/120 Winter				3.766
15.009	Swale 4_HW1	120 Winter	100	+40%					3.761
24.000	P5/4 - IC	120 Winter	100	+40%	100/120 Winter				4.314
25.000	P5/4 - IC	120 Winter	100	+40%	100/120 Winter				4.007
24.001	Stub SWL4-HW2-1	120 Winter	100	+40%	100/120 Winter				3.903
24.002	SW10b	120 Winter	100	+40%	100/120 Winter				3.848
15.010	Swale 4_HW2	120 Winter	100	+40%					3.758
26.000	P6/4- SW3	120 Winter	100	+40%	100/120 Winter				3.776
26.001	P6/4- SW4	120 Winter	100	+40%	100/120 Winter				3.766
15.011	Swale 4_Crossing	120 Winter	100	+40%					3.757
15.012	Swale 4_Dummy	120 Winter	100	+40%					3.756
27.000	P6/4-SW6	120 Winter	100	+40%	100/120 Winter				3.769
27.001	P6/4-SW5	120 Winter	100	+40%	100/120 Winter				3.761
15.013	Swale 4-Crossing	120 Winter	100	+40%					3.754
15.014	Swale 4_HW6	120 Winter	100	+40%	100/120 Winter				3.752
28.000	Stub SW11-1	120 Winter	100	+40%	100/120 Winter				4.210
28.001	MAV SW11	120 Winter	100	+40%	100/120 Winter				4.158
28.002	MAV SW11a	120 Winter	100	+40%	100/120 Winter				3.966
29.000	P5/SW12-IC	120 Winter	100	+40%	100/120 Winter				4.356
29.001	P5/SW12-IC	120 Winter	100	+40%	100/120 Winter				4.127
30.000	P5/SW12-IC	120 Winter	100	+40%	100/120 Winter				3.984
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Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
11.000	P7/7-SW5	-0.159	0.000	0.45			57.2	OK	
9.003	P7/7-SW6	0.336	0.000	1.14			314.2	SURCHARGED	
8.002	Swale 7_HW2	-1.045	0.000	0.00			11.7	OK	
1.010	Swale 7_HW3	-1.044	0.000	0.00			17.9	OK	
12.000	P6/7-SW1	0.084	0.000	0.67			27.4	SURCHARGED	
12.001	P6/7-SW2	0.166	0.000	1.37			54.7	SURCHARGED	
12.002	P6/7-SW3	-0.169	0.000	0.40			82.0	OK	
1.011	Swale 7_HW4	-1.044	0.000	0.00			19.2	OK	
13.000	School 01	0.092	0.000	0.43			37.4	SURCHARGED	
13.001	School 02	0.615	0.000	0.88			75.0	SURCHARGED	
13.002	School 03	0.672	0.000	1.30			108.1	SURCHARGED	
14.000	School 04	-0.047	0.000	0.34			40.1	OK	
13.003	School 04	0.508	0.000	1.22			178.5	SURCHARGED	
1.012	Swale 7_HW5	0.506	0.000	0.08			21.9	SURCHARGED	
15.000	P5/3_SW12	0.749	0.000	0.34			12.6	SURCHARGED	
15.001	**P5/3_SW14**	0.870	0.000	0.37			25.3	SURCHARGED	
15.002	P5/3_SW16	1.092	0.000	0.39			37.9	SURCHARGED	
16.000	P6/3-SW1	0.161	0.000	0.47			19.2	SURCHARGED	
16.001	P6/3-SW2	0.280	0.000	0.41			35.4	SURCHARGED	
16.002	P6/3_SW3	0.712	0.000	0.40			52.9	SURCHARGED	
15.003	P5/3_S28	1.141	0.000	1.55			90.2	SURCHARGED	
15.004	Swale 3_HW1	-0.534	0.000	0.01	5.0		101.2	OK	
17.000	P5/3_S10-Priv	0.681	0.000	0.64			9.2	SURCHARGED	
17.001	P5/3_S10-Priv	0.874	0.000	1.04			18.5	SURCHARGED	
18.000	P5/3_SW08-Priv	0.341	0.000	0.51			9.1	SURCHARGED	
18.001	P5/3_SW08-Priv	0.458	0.000	0.84			18.2	SURCHARGED	
18.002	P5/3_SW08	0.896	0.000	0.64			27.1	SURCHARGED	
19.000	P5/3_SW06	0.893	0.000	0.23			8.9	SURCHARGED	
17.002	P5/3_SW10	1.016	0.000	0.66			63.6	SURCHARGED	
20.000	P6/3-SW4	0.164	0.000	0.45			18.1	SURCHARGED	
20.001	P6/3-SW5	0.357	0.000	0.86			36.2	SURCHARGED	
20.002	P6/3-SW6	0.497	0.000	0.57			54.3	SURCHARGED	
15.005	Swale 3_HW2	-0.534	0.000	0.01			135.7	OK	
15.006	Swale 3_Bend	-0.534	0.000	0.00			55.5	OK	
15.007	Swale 3_HW3	1.092	0.000	1.05			35.5	SURCHARGED	
21.000	MAV_SW10/1	0.774	0.000	1.37			26.3	SURCHARGED	
15.008	MAV_SW09	0.081	0.000	0.20			35.6	SURCHARGED	
22.000	SW10a	0.053	0.000	0.30			13.7	SURCHARGED	
22.001	SW10	0.191	0.000	0.49			15.5	SURCHARGED	
23.000	P6/4_SW1	0.051	0.000	0.27			10.4	SURCHARGED	
23.001	P6/4_SW2	0.161	0.000	0.33			20.0	SURCHARGED	
15.009	Swale 4_HW1	-0.339	0.000	0.01			39.4	OK	
24.000	P5/4 - IC	0.314	0.000	1.10			17.1	FLOOD RISK	
25.000	P5/4 - IC	0.257	0.000	1.10			17.2	SURCHARGED	
24.001	Stub SWL4-HW2-1	0.252	0.000	1.10			33.9	SURCHARGED	
24.002	SW10b	0.253	0.000	1.64			50.1	SURCHARGED	
15.010	Swale 4_HW2	-0.342	0.000	0.03			65.7	OK	
26.000	P6/4- SW3	0.051	0.000	0.27			10.3	SURCHARGED	
26.001	P6/4- SW4	0.201	0.000	0.37			19.7	SURCHARGED	
15.011	Swale 4_Crossing	-0.343	0.000	0.03			77.0	OK	
15.012	Swale 4_Dummy	-0.344	0.000	0.02			63.9	OK	
27.000	P6/4-SW6	0.044	0.000	0.27			10.4	SURCHARGED	
27.001	P6/4-SW5	0.146	0.000	0.32			19.9	SURCHARGED	
15.013	Swale 4-Crossing	-0.346	0.000	0.03			70.7	OK	
15.014	Swale 4_HW6	0.327	0.000	0.96			77.8	SURCHARGED	
28.000	Stub SW11-1	0.452	0.000	0.43			12.2	SURCHARGED	
28.001	MAV SW11	0.683	0.000	1.02			36.8	FLOOD RISK	
28.002	MAV SW11a	0.676	0.000	0.86			68.3	SURCHARGED	
29.000	P5/SW12-IC	0.306	0.000	0.62			14.5	FLOOD RISK	
29.001	P5/SW12-IC	0.677	0.000	0.88			28.9	SURCHARGED	
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Lion House Oriental Road Woking, GU22 8AR		Hampton Park South & East Central Wetland Catchment 03	
Date 13/02/2024		Designed by SF	
File Outfall 03 Network_Swal...		Checked by SF	
Innovyze			Network 2020.1

Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged	Flooded	Flow / Overflow		Half Drain	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)		
30.000	P5/SW12-IC	0.514	0.000	0.64			15.0	SURCHARGED	

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Lion House Oriental Road Woking, GU22 8AR	Hampton Park South & East Central Wetland Catchment 03	
Date 13/02/2024 File Outfall 03 Network_Swal...	Designed by SF Checked by SF	
Innovyze	Network 2020.1	

Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
29.002	Stub SW12-1	120 Winter	100	+40%	100/120 Winter				3.820
28.003	MAV SW12	120 Winter	100	+40%	100/120 Winter				3.707
15.015	MAV_SW13	120 Winter	100	+40%	100/120 Winter				3.463
31.000	Gully-Low Point	120 Winter	100	+40%					3.735
31.001	MAV_SW14	120 Winter	100	+40%					3.465
31.002	MAV_SW15	120 Winter	100	+40%					3.210
1.013	MAV_SW16(HB)	120 Winter	100	+40%	100/120 Winter				3.071
1.014	OUTFALL 03	120 Winter	100	+40%					1.804

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
29.002	Stub SW12-1	0.695	0.000	0.77			43.6	SURCHARGED	
28.003	MAV SW12	0.777	0.000	1.92			123.4	SURCHARGED	
15.015	MAV_SW13	0.603	0.000	1.07			171.5	SURCHARGED	
31.000	Gully-Low Point	-0.095	0.000	0.29			8.3	OK	
31.001	MAV_SW14	-0.120	0.000	0.44			18.1	OK	
31.002	MAV_SW15	-0.125	0.000	0.41			27.9	OK	
1.013	MAV_SW16(HB)	0.771	0.000	0.11			34.0	SURCHARGED	
1.014	OUTFALL 03	-0.296	0.000	0.06			33.9	OK	

