

GTA Civils Ltd												Page 1			
66a Church Walk Burgess Hill West Sussex RH15 9AS						COURTWICK LANE SWALE NETWORK (with Cottage Site)									
Date 07.09.17						Designed by DMS									
File 4485_SWS Swale Network + Cottage Site_cd...						Checked by									
Micro Drainage						Network 2015.1									
Summary of Critical Results by Maximum Level (Rank 1) for Storm															
Simulation Criteria															
Areal Reduction Factor 1.000				Manhole Headloss Coeff (Global) 0.500				MADD Factor * 10m³/ha Storage 2.000							
Hot Start (mins) 0				Foul Sewage per hectare (l/s) 0.000				Inlet Coeffiecient 0.800							
Hot Start Level (mm) 0				Additional Flow - % of Total Flow 30.000 Flow per Person per Day (l/per/day) 0.000											
Number of Input Hydrographs 0				Number of Offline Controls 0				Number of Time/Area Diagrams 0							
Number of Online Controls 0				Number of Storage Structures 1				Number of Real Time Controls 0							
Synthetic Rainfall Details															
Rainfall Model				FSR M5-60 (mm) 19.000 Cv (Summer) 0.750											
Region England and Wales				Ratio R 0.350 Cv (Winter) 0.840											
Margin for Flood Risk Warning (mm) 150.0 DTS Status ON Inertia Status OFF															
Analysis Timestep Fine DVD Status OFF															
Profile(s) Summer and Winter															
Duration(s) (mins)				15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080											
Return Period (years)				100											
PN	US/MH Name	Storm	Return Period	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
S4.000	S17	15 Winter	100	100/15 Winter				6.975	0.105	0.000	0.62		23.3	SURCHARGED	
S4.001	S18	15 Winter	100	100/15 Summer				6.928	0.258	0.000	0.74		26.7	SURCHARGED	
S4.002	S19	15 Winter	100	100/15 Summer				6.875	0.326	0.000	1.06		38.9	SURCHARGED	
S4.003	S20	15 Winter	100	100/15 Summer				6.754	0.350	0.000	1.11		38.9	SURCHARGED	
S4.004	S21	15 Winter	100	100/15 Summer				6.662	0.348	0.000	1.04		35.4	SURCHARGED	
S4.005	S22	15 Winter	100	100/15 Summer				6.591	0.347	0.000	0.82		49.7	SURCHARGED	
S4.006	S23	30 Winter	100	100/15 Summer				6.403	0.548	0.000	1.10		50.7	SURCHARGED	
S5.000	S24	30 Winter	100	100/15 Summer				6.262	0.382	0.000	0.40		8.7	SURCHARGED	
S4.007	S25	30 Winter	100	100/15 Summer				6.243	0.605	0.000	0.84		76.1	SURCHARGED	
S4.008	S26	30 Winter	100	100/15 Summer				6.096	0.810	0.000	0.95		79.1	SURCHARGED	
S4.009	S27	30 Winter	100	100/15 Summer				6.012	0.862	0.000	0.96		74.9	SURCHARGED	
S4.010	S28	30 Winter	100	100/15 Summer				5.862	0.919	0.000	1.45		78.9	SURCHARGED	
S4.011	S29	30 Winter	100	100/15 Summer				5.784	0.879	0.000	1.32		88.8	SURCHARGED	
S4.012	S30	30 Winter	100	100/15 Summer				5.414	0.772	0.000	0.98		97.8	SURCHARGED	
S4.013	S31	30 Winter	100	100/15 Summer				5.332	0.798	0.000	1.15		102.3	SURCHARGED	
S6.000	S32	15 Winter	100					6.145	-0.065	0.000	0.61		27.0	OK	
S4.014	S33	30 Winter	100	100/15 Summer				5.274	0.789	0.000	0.94		141.9	SURCHARGED	
S4.015	S34	30 Winter	100	100/15 Summer				5.108	0.813	0.000	0.97		156.4	SURCHARGED	
S7.000	S35	15 Winter	100	100/15 Winter				7.144	0.019	0.000	0.67		32.0	SURCHARGED	
S7.001	S36	15 Winter	100	100/15 Summer				7.061	0.196	0.000	1.06		43.6	SURCHARGED	
S7.002	S37	15 Winter	100	100/15 Summer				6.760	0.280	0.000	1.05		42.2	SURCHARGED	
S7.003	S38	15 Winter	100	100/15 Summer				6.613	0.324	0.000	0.79		55.5	SURCHARGED	
S7.004	S39	15 Winter	100	100/15 Summer				6.561	0.385	0.000	1.34		95.8	SURCHARGED	
S8.000	S40A	30 Winter	100	100/15 Winter				6.482	0.102	0.000	0.50		10.0	SURCHARGED	
S7.005	S40	30 Winter	100	100/15 Summer				6.449	0.396	0.000	0.83		129.5	SURCHARGED	
S9.000	S41	15 Winter	100	100/15 Summer				7.437	0.707	0.000	0.47		8.5	SURCHARGED	
S9.001	S42	15 Winter	100	100/15 Summer				7.418	0.865	0.000	0.69		12.8	SURCHARGED	
S9.002	S43	15 Winter	100	100/15 Summer				7.400	1.051	0.000	0.52		27.2	SURCHARGED	
S9.003	S43A	15 Winter	100	100/15 Summer				7.370	1.268	0.000	0.53		29.4	SURCHARGED	
S10.000	S44	15 Winter	100	100/15 Summer				7.425	1.065	0.000	0.49		10.9	SURCHARGED	
S9.004	S45	15 Winter	100	100/15 Summer				7.340	1.567	0.000	0.56		51.0	SURCHARGED	
S11.000	S46C	15 Winter	100	100/15 Summer				8.026	0.426	0.000	0.75		31.9	SURCHARGED	
S12.000	S46A	15 Winter	100	100/15 Summer				7.424	1.094	0.000	0.53		9.8	SURCHARGED	
S12.001	S46B	15 Winter	100	100/15 Summer				7.385	1.306	0.000	0.54		47.4	SURCHARGED	
S9.005	S46	15 Winter	100	100/15 Summer				7.274	1.920	0.000	1.80		121.5	SURCHARGED	
S9.006	S47	15 Winter	100	100/15 Summer				6.701	1.605	0.000	1.96		124.8	SURCHARGED	
S9.007	S48	15 Winter	100	100/15 Summer				6.358	1.370	0.000	1.97		125.2	SURCHARGED	
S7.006	S49	30 Winter	100	100/15 Summer				5.995	1.113	0.000	1.09		227.6	SURCHARGED	
S7.007	S50	30 Winter	100	100/15 Summer				5.734	1.083	0.000	1.12		229.8	SURCHARGED	
S7.008	S51	30 Winter	100	100/15 Summer				5.479	1.033	0.000	1.24		256.1	SURCHARGED	
S7.009	S52	30 Winter	100	100/15 Summer				5.168	0.926	0.000	1.42		255.2	SURCHARGED	
S4.016	S53	30 Winter	100	100/15 Summer				4.965	0.825	0.000	1.52		415.3	SURCHARGED	
S4.017	S54	30 Winter	100	100/15 Summer				4.673	0.660	0.000	1.49		420.1	SURCHARGED	
S4.018	S55	30 Winter	100	100/15 Summer				4.371	0.493	0.000	1.70		423.6	SURCHARGED	
S13.000	S56	15 Winter	100	100/15 Winter				4.218	0.018	0.000	0.96		24.7	SURCHARGED	
S4.019	S46	30 Winter	100	100/15 Summer				4.064	0.280	0.000	3.24		435.8	SURCHARGED	
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