


Tridax Ltd		Page 1
Honeywood House Whitfield Kent CT16 3EH		Broad Oak 100 year + 40%
Date 10/08/2017 17:40 File EMC-2017-068 SURFACE SI...	Designed by PRL Checked by	
XP Solutions		
Network 2017.1.2		

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 * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	1	Number of Storage Structures	2	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR M5-60 (mm)	26.250	Cv (Summer)	0.750	
Region	England and Wales	Ratio R	0.391	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	100.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	ON

Profile(s)	Summer and Winter
Duration(s) (mins)	30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Flooded Volume (m ³)	Discharge Vol (m ³)	Pipe Flow (l/s)	Status
1.000	S1.0	30 minute 100 year Winter I+40%	51.175	51.177	1.875	26.243	34.9	FLOOD
1.001	S1.1	30 minute 100 year Summer I+40%	51.160	51.163	2.783	47.579	56.2	FLOOD
1.002	S1.2	30 minute 100 year Summer I+40%	51.140	51.140	0.030	66.029	78.0	FLOOD
1.003	S1.3	30 minute 100 year Summer I+40%	51.310	51.086	0.000	74.077	86.7	SURCHARGED
1.004	S1.4	30 minute 100 year Winter I+40%	51.055	50.932	0.000	97.122	101.6	SURCHARGED
1.005	S1.5	30 minute 100 year Winter I+40%	50.990	50.783	0.000	107.525	112.7	SURCHARGED
1.006	S1.6	480 minute 100 year Winter I+40%	51.110	50.655	0.000	250.765	21.0	SURCHARGED
1.007	S1.7	480 minute 100 year Winter I+40%	51.230	50.654	0.000	279.431	23.4	SURCHARGED
1.008	Pond Inlet	480 minute 100 year Winter I+40%	51.230	50.652	0.000	292.941	24.5	SURCHARGED
1.009	Pond Outlet	480 minute 100 year Winter I+40%	51.230	50.650	0.000	151.130	5.1	SURCHARGED
1.010	Soakaway	480 minute 100 year Winter I+40%	51.230	50.656	0.000	2.339	0.9	SURCHARGED
1.011	dummy	480 minute 100 year Winter I+40%	51.230	50.659	0.000	0.000	0.0	SURCHARGED