

Old Marsh Farm Barns  
Welsh Road Sealand  
Flintshire CH5 2LY

Waddow View, Clitheroe  
SW Network 3  
10% Urban Creep



Date 16/12/2019 15:55  
File DWH155 Networks with 10% Urban ...

Designed by JC  
Checked by GW

Micro Drainage

Network 2018.1

Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/ha Storage 2.000  
Hot Start Level (mm) 0 Inlet Coefficient 0.800  
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000  
Foul Sewage per hectare (l/s) 0.000

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

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 19.000 Cv (Summer) 0.750  
Region England and Wales Ratio R 0.280 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0  
Analysis Timestep 2.5 Second Increment (Extended)  
DTS Status OFF  
DVD Status OFF  
Inertia Status OFF

Profile(s) Summer and Winter  
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440  
Return Period(s) (years) 100  
Climate Change (%) 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
1.000	S3.1	15 Winter	100	+40%	100/15 Summer				75.557	1.069
1.001	S3.2	15 Winter	100	+40%	100/15 Summer				74.869	0.828
2.000	S3.3	15 Winter	100	+40%	100/15 Summer				74.666	0.554
1.002	S3.4	15 Winter	100	+40%	100/15 Summer				74.492	0.657
1.003	S3.5	15 Winter	100	+40%	100/15 Summer				73.845	0.142
1.004	S3.6	15 Winter	100	+40%	100/15 Summer				73.711	0.105
1.005	S3.7	1440 Winter	100	+40%	100/15 Summer				73.669	0.183
3.000	S3.8	15 Winter	100	+40%	100/15 Summer				75.119	1.028
3.001	S3.9	15 Winter	100	+40%	100/15 Summer				74.953	1.008
3.002	S3.10	15 Winter	100	+40%	100/15 Summer				74.201	0.437
3.003	S3.11	15 Winter	100	+40%	100/15 Summer				73.792	0.241
1.006	S3.12	1440 Winter	100	+40%	100/15 Summer				73.668	0.231
1.007	S3.13	Outfall 1440 Winter	100	+40%	100/15 Summer				73.668	0.548
4.000	S3.14	15 Winter	100	+40%	100/15 Summer				74.051	0.240
4.001	S3.15	15 Winter	100	+40%	100/15 Summer				73.874	0.284
4.002	S3.16	1440 Winter	100	+40%	100/15 Summer				73.668	0.362
4.003	S3.17	Outfall 1440 Winter	100	+40%	100/120 Summer				73.667	0.547
1.008	S3.18	Outfall 1440 Winter	100	+40%	100/60 Summer				73.667	0.652
1.009	S3.22	HB 1440 Winter	100	+40%	100/15 Summer				73.714	1.167

PN	US/MH Name	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	S3.1	0.000	1.24	76.1	SURCHARGED	
1.001	S3.2	0.000	1.34	111.0	SURCHARGED	
2.000	S3.3	0.000	0.79	32.0	SURCHARGED	
1.002	S3.4	0.000	2.22	174.9	SURCHARGED	
1.003	S3.5	0.000	1.17	199.4	SURCHARGED	
1.004	S3.6	0.000	0.82	245.2	SURCHARGED	
1.005	S3.7	0.000	0.10	26.6	SURCHARGED	
3.000	S3.8	0.000	1.11	42.9	FLOOD RISK	

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PN	US/MH Name	Flooded		Overflow (l/s)	Pipe	Status	Level Exceeded
		Volume (m³)	Flow / Cap.		Flow (l/s)		
3.001	S3.9	0.000	2.03		79.9	FLOOD RISK	
3.002	S3.10	0.000	1.35		111.8	SURCHARGED	
3.003	S3.11	0.000	1.45		112.0	SURCHARGED	
1.006	S3.12	0.000	0.19		36.5	SURCHARGED	
1.007	S3.13 Outfall	0.000	0.12		36.5	FLOOD RISK	
4.000	S3.14	0.000	0.91		36.1	SURCHARGED	
4.001	S3.15	0.000	1.06		89.3	SURCHARGED	
4.002	S3.16	0.000	0.12		9.7	SURCHARGED	
4.003	S3.17 Outfall	0.000	0.03		9.6	FLOOD RISK	
1.008	S3.18 Outfall	0.000	0.07		12.7	FLOOD RISK	
1.009	S3.22 HB	0.000	0.38		5.0	FLOOD RISK	