

Preece Consultants		Page 1
11 Hawthorn Drive Towcester NN12 7AE	Roseway Stoke Golding	
Date 01.12.22 File 1716.SIM	Designed By ndp Checked By	
Micro Drainage	Simulation W.11.2	

Global Variables

Region	FSR - England & Wales
Return Period (yrs)	100
M5-60 (mm)	19.000
Ratio R	0.400
Volumetric Runoff Coef	0.850
Profile Type	Winter
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	1440
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole Headloss Coefficient	0.500
MADD Factor * 10m ³ /ha Storage	0.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	40
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	0
Number of On-Line Controls	1

Starting Storm file name

P:\DATA\1716.SWS

Freely Discharging Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
1.010	1402	102.910	100.930	1200	0

On-Line Controls (Head/Flow)

US/PN	Volume (m ³)	Ctrl MH Name	Invert (m)	Headloss (m)	Flow (l/s)
1.008	0.748	12	104.450	0.1	5.6650
				0.2	11.6810
				0.3	12.2440
				0.4	12.2510
				0.5	12.0470
				0.6	11.7150
				0.7	11.0410
				0.8	10.3670
				0.9	10.9570
				1.0	11.5130
				1.2	12.5470
				1.4	13.0310
				1.6	13.0310
				1.8	13.0310
				2.0	13.0310
				2.2	13.0310

Storage Pond at pipe 1.007 USMH HW1

Storage Pond Invert Level (m) 104.510

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.0	510.0	0.5	660.0	1.0	830.0	1.5	1010.0	2.0	0.0	2.5	0.0
0.1	535.0	0.6	700.0	1.1	865.0	1.6	0.0	2.1	0.0		
0.2	565.0	0.7	730.0	1.2	900.0	1.7	0.0	2.2	0.0		
0.3	600.0	0.8	760.0	1.3	935.0	1.8	0.0	2.3	0.0		
0.4	630.0	0.9	800.0	1.4	975.0	1.9	0.0	2.4	0.0		

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Summary of Results

Return Period (years)	100	Analysis Time Step	Fine
Storm Duration (mins)	1440	DTS Status	ON
Profile Type	Winter	DVD Status	OFF
Margin for Flood Risk warning (mm)	300	Inertia Status	OFF

PN	Water Lev. (m)	Surcharged Depth (m)	Flooded Vol (m ³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	109.247	-0.253	0.000	0.06	0.0	4.8	0 K
1.001	109.118	-0.242	0.000	0.08	0.0	6.7	0 K
1.002	108.889	-0.296	0.000	0.10	0.0	11.3	0 K
1.003	108.807	-0.293	0.000	0.11	0.0	18.2	0 K
2.000	108.741	-0.259	0.000	0.05	0.0	2.9	0 K
2.001	108.610	-0.240	0.000	0.09	0.0	5.8	0 K
1.004	108.297	-0.388	0.000	0.05	0.0	27.8	0 K
1.005	106.213	-0.387	0.000	0.05	0.0	31.8	0 K
3.000	106.318	-0.182	0.000	0.08	0.0	3.5	0 K
3.001	106.007	-0.193	0.000	0.05	0.0	6.0	0 K
1.006	105.428	0.228	0.000	0.22	0.0	39.9	SURCH'ED
1.007	105.425	-0.356	0.000	0.01	0.0	23.1	0 K
1.008	105.446	0.496	0.000	0.11	0.0	17.8	SURCH'ED
1.009	105.581	0.681	0.000	0.04	0.0	12.1	SURCH'ED
1.010	104.234	-0.416	0.000	0.02	0.0	12.5	0 K