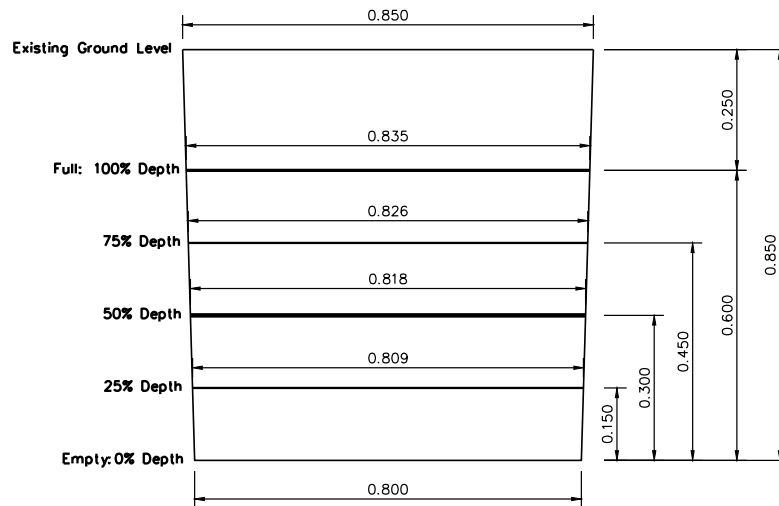
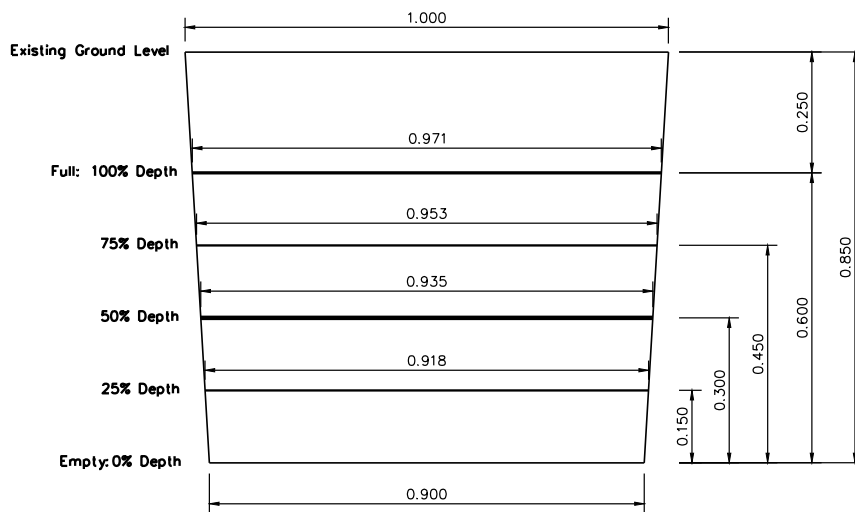




**Test Pit Section: Short Face**



**Test Pit Section: Long Face**



**Test Pit Section Details**

FOLLOWING ORIGINAL SUDS DESIGN IN 2017 USING ARBITRARY INFILTRATION RATE, SITE CHANGED HANDS, SITE LAYOUT AMENDED TO REPOSITION GARAGE & LOCATE SOAKAWAY AWAY FROM TPO POST PROTECTION AREA. TESTING TO BRE DIGEST 365 UNDERPAKEN ON SITE IN PROPOSED SOAKAWAY LOCATION, REPEATED 3 TIMES

TEST PIT SIZE: TOP 850mm WIDE x 1000mm LONG. 850mm DEEP  
BASE 800mm WIDE x 900mm LONG  
WATER FILL LEVEL: TO 600mm DEPTH AT START.

$$\text{PERMEATION RATE } f = \frac{V_{p75-25}}{A_{p50} \times t_{p75-25}} \quad \text{WHERE}$$

$V_{p75-25}$  = VOLUME TEST PIT BETWEEN 75% & 25% WATER DEPTH

$A_{p50}$  = INTERNAL SURFACE AREA OF TEST PIT TO 50% WATER DEPTH

$t_{p75-25}$  = TIME FOR WATER LEVEL TO DROP FROM 75% TO 25% DEPTH.

$V_{p75-25}$  = VOLUME BETWEEN 0.45m & 0.15m DEPTH FROM BASE.

LENGTH SHORT SIDE 75% DEPTH = 0.826m } AVE = 0.818m  
25% DEPTH = 0.809m }

LENGTH LONG SIDE 75% DEPTH = 0.953m } AVE = 0.935m  
25% DEPTH = 0.918m }

DEPTH TEST PIT BETWEEN 0.45m & 0.15m DEPTH = 0.300m.

$$\therefore V_{p75-25} = 0.818 \times 0.935 \times 0.3 = \underline{0.2295 \text{ m}^3}$$

$A_{p50}$  = INTERNAL SURFACE AREA TO 50% DEPTH.

LENGTH SHORT SIDE 50% DEPTH = 0.818m } AVE = 0.809m  
0% DEPTH = 0.800m }

LENGTH LONG SIDE 50% DEPTH = 0.935m } AVE = 0.918m  
0% DEPTH = 0.900m }

DEPTH TO 50% = 0.3m.

$$\therefore A_{p50} = 2(0.809 \times 0.3) + 2(0.918 \times 0.3) + (0.809 \times 0.918)$$

$$= 0.4854 + 0.5508 + 0.742662$$

$$\therefore \underline{A_{p50} = 1.778862 \text{ m}^2}$$

$t_{p75-25}$  = TIME FOR WATER LEVEL TO DROP FROM 75% - 25% DEPTH.  
TEST 1

75% DEPTH = 450mm, 25% DEPTH = 150mm.

INFILTRATION RATE INTERPOLATED AS LINEAR START-END.

0.6m DEPTH @ 0mins. 0.0 DEPTH @ 2mins 35secs (155secs).

= 38.75 SECS PER 150mm INFILTRATION.

$\therefore$  TIME AT 75% = 38.75 SECS TIME AT 25% = 116.25 SECS

$$\therefore \underline{\text{TP75-25 TEST 1}} = 116.25 - 38.75 = \underline{77.5 \text{ SECONDS}}$$

$$\text{(MIN 17.5 SECONDS)}$$

$$\text{TP75-25 TEST 2} = 0.6 \text{m DEPTH @ 0 MINIS; } 0.9 \text{m DEPTH @ 2 MIN 45 SECS.}$$

$$= 41.25 \text{ SECS / 150mm.} \quad \text{(165 SECS)}$$

$$\therefore \text{TP75} = 41.25 \text{ SECS, } \text{TP75} = 123.75 \text{ SECS.}$$

$$\therefore \underline{\text{TP75-25 TEST 2}} = 123.75 - 41.25 = \underline{82.5 \text{ SECONDS}}$$

$$\text{(1 MIN 22.5 SECS)}$$

$$\text{TP75-25 TEST 3} = 0.6 \text{m DEPTH @ 0 MINIS; } 0.9 \text{m DEPTH @ 2 MIN 55 SECS.}$$

$$= 44.5 \text{ SECS / 150mm.} \quad \text{(176 SECONDS)}$$

$$\therefore \text{TP75} = 44.5 \text{ SECS, } \text{TP75} = 133.5 \text{ SECS.}$$

$$\therefore \underline{\text{TP75-25 TEST 3}} = 133.5 - 44.5 = \underline{89 \text{ SECONDS}}$$

$$\text{(1 MIN 29 SECS)}$$

$$\therefore \underline{\text{TEST 1 } f} = \frac{V_{\text{TP75-25}}}{A_{\text{PROX}} \times \text{TP75-25}} = \frac{0.2295}{1.778862 \times 77.5} = \underline{1.6647 \times 10^{-3} \text{ m/s}}$$

$$\text{(5.993 m/hr)}$$

$$\underline{\text{TEST 2 } f} = \frac{0.2295}{1.778862 \times 82.5} = \underline{1.5638 \times 10^{-3} \text{ m/s (5.630 m/hr)}}$$

$$\underline{\text{TEST 3 } f} = \frac{0.2295}{1.778862 \times 89} = \underline{1.4496 \times 10^{-3} \text{ m/s (5.219 m/hr)}}$$

USE LOWEST RESULT: 5.219 m/hr.



STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	1	PIMP (%)	100
M5-60 (mm)	20.000	Add Flow / Climate Change (%)	10
Ratio R	0.400	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	100	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.013	4-8	0.004

Total Area Contributing (ha) = 0.017

Total Pipe Volume (m³) = 0.376

Network Design Table for Storm

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	9.800	0.130	75.4	0.005	5.00	0.0	0.600	o	100	Pipe/Conduit	👍
1.001	17.530	0.220	79.7	0.006	0.00	0.0	0.600	o	100	Pipe/Conduit	👍
2.000	15.300	0.200	76.5	0.006	5.00	0.0	0.600	o	100	Pipe/Conduit	🚫
1.002	3.800	0.050	76.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	👍
1.003	1.500	0.001	1500.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	🚫

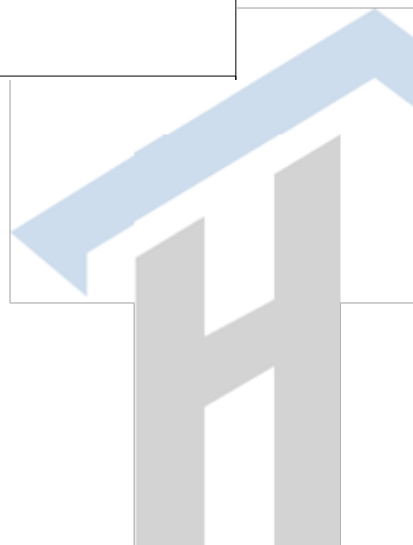
Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	53.85	5.18	88.675	0.005	0.0	0.0	0.1	0.89	7.0	0.8
1.001	52.34	5.52	88.545	0.011	0.0	0.0	0.2	0.86	6.8	1.7
2.000	53.37	5.29	88.575	0.006	0.0	0.0	0.1	0.88	6.9	1.0
1.002	52.03	5.59	88.325	0.017	0.0	0.0	0.2	0.88	6.9	2.6
1.003	51.48	5.73	88.000	0.017	0.0	0.0	0.2	0.19	1.5«	2.6

Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)
S1	89.250	0.575	Open Manhole	450	1.000	88.675	100		
S2	89.250	0.705	Open Manhole	450	1.001	88.545	100	1.000	88.545
S3RE	89.250	0.675	Open Manhole	100	2.000	88.575	100		
S4	88.900	0.575	Open Manhole	450	1.002	88.325	100	1.001	88.325
Soakaway	88.900	0.900	Junction		1.003	88.000	100	2.000	88.375
Maintenance	88.900	0.901	Open Manhole	450		OUTFALL		1.002	88.275
								1.003	87.999

No coordinates have been specified, layout information cannot be produced.



PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	100	S1	89.250	88.675	0.475	Open Manhole	450
1.001	o	100	S2	89.250	88.545	0.605	Open Manhole	450
2.000	o	100	S3RE	89.250	88.575	0.575	Open Manhole	100
1.002	o	100	S4	88.900	88.325	0.475	Open Manhole	450
1.003	o	100	Soakaway	88.900	88.000	0.800	Junction	

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	9.800	75.4	S2	89.250	88.545	0.605	Open Manhole	450
1.001	17.530	79.7	S4	88.900	88.325	0.475	Open Manhole	450
2.000	15.300	76.5	S4	88.900	88.375	0.425	Open Manhole	450
1.002	3.800	76.0	Soakaway	88.900	88.275	0.525	Junction	
1.003	1.500	1500.0	Maintenance	88.900	87.999	0.801	Open Manhole	450

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D, L (mm)	W (mm)
1.003	Maintenance	88.900	87.999	87.999	450	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	10.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1
Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.400		

Online Controls for Storm

Pump Manhole: Soakaway, DS/PN: 1.003, Volume (m<sup>3</sup>): 0.0

Invert Level (m) 88.000

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	0.0000	0.900	0.0000	1.700	0.0000	2.500	0.0000
0.200	0.0000	1.000	0.0000	1.800	0.0000	2.600	0.0000
0.300	0.0000	1.100	0.0000	1.900	0.0000	2.700	0.0000
0.400	0.0000	1.200	0.0000	2.000	0.0000	2.800	0.0000
0.500	0.0000	1.300	0.0000	2.100	0.0000	2.900	0.0000
0.600	0.0000	1.400	0.0000	2.200	0.0000	3.000	0.0000
0.700	0.0000	1.500	0.0000	2.300	0.0000		
0.800	0.0000	1.600	0.0000	2.400	0.0000		

Storage Structures for Storm

Cellular Storage Manhole: Soakaway, DS/PN: 1.003

Invert Level (m) 88.000 Safety Factor 2.0  
Infiltration Coefficient Base (m/hr) 5.21900 Porosity 0.95  
Infiltration Coefficient Side (m/hr) 5.21900

Depth (m)	Area (m <sup>2</sup> )	Inf. Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )	Inf. Area (m <sup>2</sup> )
0.000	10.0	10.0	0.401	0.0	15.2
0.400	10.0	15.2			



















Summary Wizard of 480 minute 1 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Pipe		Status	
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)		
1.000	S1	60	88.684	-0.091	0.000	0.02			0.1	OK	
1.001	S2	60	88.558	-0.087	0.000	0.04			0.3	OK	
2.000	S3RE	60	88.585	-0.090	0.000	0.02			0.2	OK	
1.002	S4	60	88.343	-0.082	0.000	0.07			0.4	OK	
1.003	Soakaway	60	88.003	-0.097	0.000	0.00			56	0.0	OK*









Summary Wizard of 1440 minute 1 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water			Surcharged		Flooded		Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)			
1.000	S1	80	88.679	-0.096	0.000	0.01				0.1		OK
1.001	S2	80	88.554	-0.091	0.000	0.02				0.1		OK
2.000	S3RE	80	88.580	-0.095	0.000	0.01				0.1		OK
1.002	S4	80	88.337	-0.088	0.000	0.03				0.2		OK
1.003	Soakaway	81	88.001	-0.099	0.000	0.00				144	0.0	OK*









Summary Wizard of 4320 minute 1 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
								Time (mins)	Flow (l/s)	
1.000	S1	100	88.677	-0.098	0.000	0.00		0.0	OK	
1.001	S2	100	88.549	-0.096	0.000	0.01		0.1	OK	
2.000	S3RE	100	88.577	-0.098	0.000	0.00		0.0	OK	
1.002	S4	100	88.332	-0.093	0.000	0.02		0.1	OK	
1.003	Soakaway	100	88.001	-0.099	0.000	0.00		384	0.0	OK*



Summary Wizard of 5760 minute 1 year Summer I+0% for Storm

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

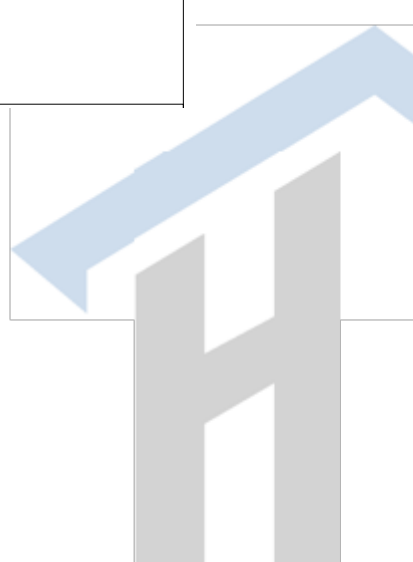
Number of Input Hydrographs 0    Number of Storage Structures 1  
 Number of Online Controls 1    Number of Time/Area Diagrams 0  
 Number of Offline Controls 0    Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840  
 Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	104	88.677	-0.098	0.000	0.00		0.0	OK	
1.001	S2	104	88.548	-0.097	0.000	0.01		0.0	OK	
2.000	S3RE	104	88.577	-0.098	0.000	0.00		0.0	OK	
1.002	S4	104	88.331	-0.094	0.000	0.01		0.1	OK	
1.003	Soakaway	104	88.000	-0.100	0.000	0.00		456	0.0	OK*





Summary Wizard of 8640 minute 1 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	109	88.676	-0.099	0.000	0.00		0.0	OK	
1.001	S2	109	88.548	-0.097	0.000	0.01		0.0	OK	
2.000	S3RE	109	88.576	-0.099	0.000	0.00		0.0	OK	
1.002	S4	109	88.329	-0.096	0.000	0.01		0.1	OK	
1.003	Soakaway	109	88.000	-0.100	0.000	0.00	720	0.0	OK*	







Summary Wizard of 30 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	9	88.709	-0.066	0.000	0.25		1.6	OK	
1.001	S2	8	88.599	-0.046	0.000	0.56		3.6	OK	
2.000	S3RE	9	88.612	-0.063	0.000	0.29		1.9	OK	
1.002	S4	8	88.403	-0.022	0.000	0.96		5.6	OK	
1.003	Soakaway	9	88.035	-0.065	0.000	0.00		5    0.0	OK*	

Summary Wizard of 60 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)			
1.000	S1	12	88.704	-0.071	0.000	0.18		1.2	OK	
1.001	S2	12	88.590	-0.055	0.000	0.39		2.6	OK	
2.000	S3RE	12	88.606	-0.069	0.000	0.21		1.4	OK	
1.002	S4	12	88.387	-0.038	0.000	0.67		3.9	OK	
1.003	Soakaway	12	88.025	-0.075	0.000	0.00		8    0.0	OK*	













Summary Wizard of 600 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

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(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S1	46	88.687	-0.088	0.000	0.04		0.2	OK
1.001	S2	46	88.564	-0.081	0.000	0.08		0.5	OK
2.000	S3RE	46	88.588	-0.087	0.000	0.04		0.3	OK
1.002	S4	46	88.349	-0.076	0.000	0.14		0.8	OK
1.003	Soakaway	46	88.005	-0.095	0.000	0.00	60	0.0	OK*



Summary Wizard of 720 minute 30 year Summer I+0% for Storm

Simulation Criteria

```

Areal Reduction Factor 1.000  Additional Flow - % of Total Flow 10.000
   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 (1/per/day) 0.000
Foul Sewage per hectare (1/s) 0.000
  
```

```

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

Synthetic Rainfall Details

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Rainfall Model      FSR      Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm)         20.000 Cv (Winter) 0.840
  
```

```

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status      ON
  
```

```

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(s) (years)          1, 30, 100
Climate Change (%)                0, 0, 30
  
```

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (1/s)	Half Drain Time (mins)	Pipe Flow (1/s)	Status
			Level (m)	Depth (m)	Volume (m³)					
1.000	S1	49	88.687	-0.088	0.000	0.03		0.2	OK	
1.001	S2	49	88.562	-0.083	0.000	0.07		0.4	OK	
2.000	S3RE	49	88.587	-0.088	0.000	0.04		0.2	OK	
1.002	S4	49	88.348	-0.077	0.000	0.12		0.7	OK	
1.003	Soakaway	49	88.004	-0.096	0.000	0.00		84	0.0	OK*



Summary Wizard of 960 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	54	88.686	-0.089	0.000	0.03		0.2	OK	
1.001	S2	54	88.560	-0.085	0.000	0.05		0.4	OK	
2.000	S3RE	54	88.586	-0.089	0.000	0.03		0.2	OK	
1.002	S4	54	88.346	-0.079	0.000	0.09		0.6	OK	
1.003	Soakaway	54	88.004	-0.096	0.000	0.00		112 0.0	OK*	

Summary Wizard of 1440 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	10.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	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 Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	450.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

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(s) (years)		1, 30, 100
Climate Change (%)		0, 0, 30

		<b>Water</b>	<b>Surcharged</b>	<b>Flooded</b>				<b>Half Drain</b>	<b>Pipe</b>	
	<b>US/MH</b>	<b>Storm</b>	<b>Level</b>	<b>Depth</b>	<b>Volume</b>	<b>Flow /</b>	<b>Overflow</b>	<b>Time</b>	<b>Flow</b>	
<b>PN</b>	<b>Name</b>	<b>Rank</b>	<b>(m)</b>	<b>(m)</b>	<b>(m³)</b>	<b>Cap.</b>	<b>(l/s)</b>	<b>(mins)</b>	<b>(l/s)</b>	<b>Status</b>
1.000	S1	62	88.684	-0.091	0.000	0.02			0.1	OK
1.001	S2	62	88.558	-0.087	0.000	0.04			0.3	OK
2.000	S3RE	62	88.585	-0.090	0.000	0.02			0.1	OK
1.002	S4	62	88.342	-0.083	0.000	0.07			0.4	OK
1.003	Soakaway	62	88.003	-0.097	0.000	0.00		168	0.0	OK*

Summary Wizard of 2160 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	69	88.681	-0.094	0.000	0.01		0.1	OK	
1.001	S2	69	88.556	-0.089	0.000	0.03		0.2	OK	
2.000	S3RE	69	88.583	-0.092	0.000	0.02		0.1	OK	
1.002	S4	69	88.339	-0.086	0.000	0.05		0.3	OK	
1.003	Soakaway	69	88.002	-0.098	0.000	0.00		192	0.0	OK*

Summary Wizard of 2880 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	75	88.680	-0.095	0.000	0.01		0.1	OK	
1.001	S2	76	88.555	-0.090	0.000	0.02		0.2	OK	
2.000	S3RE	75	88.581	-0.094	0.000	0.01		0.1	OK	
1.002	S4	76	88.338	-0.087	0.000	0.04		0.2	OK	
1.003	Soakaway	76	88.002	-0.098	0.000	0.00		264	0.0	OK*

Summary Wizard of 4320 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	83	88.679	-0.096	0.000	0.01		0.1	OK	
1.001	S2	83	88.553	-0.092	0.000	0.02		0.1	OK	
2.000	S3RE	83	88.579	-0.096	0.000	0.01		0.1	OK	
1.002	S4	83	88.336	-0.089	0.000	0.03		0.2	OK	
1.003	Soakaway	83	88.001	-0.099	0.000	0.00		384	0.0	OK*

Summary Wizard of 5760 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R 0.400
Region	England and Wales	Cv (Summer) 0.750
M5-60 (mm)	20.000	Cv (Winter) 0.840

Margin for Flood Risk Warning (mm)	450.0	DVD Status OFF
Analysis Timestep	Fine	Inertia Status OFF
DTS Status	ON	

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(s) (years)	1, 30, 100	
Climate Change (%)	0, 0, 30	

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Time (mins)	Flow (l/s)	
1.000	S1	90	88.678	-0.097	0.000	0.01		0.0		OK
1.001	S2	90	88.552	-0.093	0.000	0.01		0.1		OK
2.000	S3RE	90	88.579	-0.096	0.000	0.01		0.0		OK
1.002	S4	90	88.335	-0.090	0.000	0.02		0.1		OK
1.003	Soakaway	90	88.001	-0.099	0.000	0.00		456	0.0	OK*





Summary Wizard of 8640 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water			Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Flow / (l/s)					
1.000	S1	98	88.677	-0.098	0.000	0.00				0.0	OK	
1.001	S2	98	88.550	-0.095	0.000	0.01				0.1	OK	
2.000	S3RE	98	88.578	-0.097	0.000	0.01				0.0	OK	
1.002	S4	98	88.333	-0.092	0.000	0.02				0.1	OK	
1.003	Soakaway	98	88.001	-0.099	0.000	0.00			720	0.0	OK*	

Summary Wizard of 7200 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1 Number of Time/Area Diagrams 0  
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S1	94	88.678	-0.097	0.000	0.01		0.0	OK	
1.001	S2	94	88.550	-0.095	0.000	0.01		0.1	OK	
2.000	S3RE	94	88.578	-0.097	0.000	0.01		0.0	OK	
1.002	S4	94	88.334	-0.091	0.000	0.02		0.1	OK	
1.003	Soakaway	94	88.001	-0.099	0.000	0.00	600	0.0	OK*	



Summary Wizard of 10080 minute 30 year Summer I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
Analysis Timestep      Fine Inertia Status OFF  
DTS Status      ON

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(s) (years)      1, 30, 100  
Climate Change (%)      0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	S1	101	88.677	-0.098	0.000	0.00		0.0	OK
1.001	S2	101	88.549	-0.096	0.000	0.01		0.1	OK
2.000	S3RE	101	88.577	-0.098	0.000	0.00		0.0	OK
1.002	S4	101	88.332	-0.093	0.000	0.02		0.1	OK
1.003	Soakaway	101	88.001	-0.099	0.000	0.00		864 0.0	OK*



Summary Wizard of 15 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )			
1.000	S1	2	88.759	-0.016	0.000	0.45		2.9
1.001	S2	2	88.733	0.088	0.000	0.99		6.4
2.000	S3RE	2	88.628	-0.047	0.000	0.55		3.6
1.002	S4	2	88.514	0.089	0.000	1.69		9.9
1.003	Soakaway	2	88.082	-0.018	0.000	0.00	3	0.0

PN	US/MH Name	Status
1.000	S1	OK
1.001	S2	SURCHARGED
2.000	S3RE	OK
1.002	S4	FLOOD RISK
1.003	Soakaway	OK*

Summary Wizard of 30 minute 100 year Summer I+30% for Storm

Simulation Criteria

```

Areal Reduction Factor 1.000   Additional Flow - % of Total Flow 10.000
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 Storage Structures 1
Number of Online Controls 1     Number of Time/Area Diagrams 0
Number of Offline Controls 0    Number of Real Time Controls 0
    
```

Synthetic Rainfall Details

```

Rainfall Model           FSR           Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm)              20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0   DVD Status OFF
Analysis Timestep       Fine Inertia Status OFF
DTS Status              ON
    
```

```

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(s) (years) 1, 30, 100
Climate Change (%)       0, 0, 30
    
```

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)		
1.000	S1	3	88.720	-0.055	0.000	0.42	2.8	
1.001	S2	3	88.682	0.037	0.000	0.91	5.9	
2.000	S3RE	3	88.625	-0.050	0.000	0.50	3.3	
<b>1.002</b>	<b>S4</b>	<b>3</b>	<b>88.494</b>	<b>0.069</b>	<b>0.000</b>	<b>1.56</b>	<b>9.2</b>	
1.003	Soakaway	3	88.070	-0.030	0.000	0.00	4 0.0	

US/MH		
PN	Name	Status
1.000	S1	OK
1.001	S2	SURCHARGED
2.000	S3RE	OK
<b>1.002</b>	<b>S4</b>	<b>FLOOD RISK</b>
1.003	Soakaway	OK*

Summary Wizard of 60 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )			
1.000	S1	5	88.713	-0.062	0.000	0.31	2.0	
1.001	S2	5	88.607	-0.038	0.000	0.68	4.4	
2.000	S3RE	5	88.617	-0.058	0.000	0.36	2.4	
1.002	S4	5	88.442	0.017	0.000	1.15	6.7	
1.003	Soakaway	5	88.043	-0.057	0.000	0.00	8    0.0	

PN	US/MH Name	Status
1.000	S1	OK
1.001	S2	OK
2.000	S3RE	OK
1.002	S4	SURCHARGED
1.003	Soakaway	OK*

Summary Wizard of 120 minute 100 year Summer I+30% for Storm

Simulation Criteria

```

Areal Reduction Factor 1.000    Additional Flow - % of Total Flow 10.000
Hot Start (mins)           0         MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm)      0         Inlet Coeffiecient 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 Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0

```

Synthetic Rainfall Details

```

Rainfall Model      FSR      Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm)         20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status      ON

```

```

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(s) (years)           1, 30, 100
Climate Change (%)                0, 0, 30

```

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Pipe		Status
			Storm Level (m)	Depth (m)	Volume (m³)			Time (mins)	Flow (l/s)	
1.000	S1	11	88.705	-0.070	0.000	0.20		1.3	OK	
1.001	S2	11	88.591	-0.054	0.000	0.43		2.8	OK	
2.000	S3RE	11	88.608	-0.067	0.000	0.23		1.5	OK	
1.002	S4	11	88.390	-0.035	0.000	0.74		4.3	OK	
1.003	Soakaway	11	88.028	-0.072	0.000	0.00	16	0.0	OK*	

Summary Wizard of 180 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Level (m)	Water Surcharged			Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
				Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	13	88.701	-0.074	0.000	0.16			1.0	OK	
1.001	S2	13	88.585	-0.060	0.000	0.34			2.2	OK	
2.000	S3RE	13	88.604	-0.071	0.000	0.18			1.2	OK	
1.002	S4	14	88.380	-0.045	0.000	0.58			3.4	OK	
1.003	Soakaway	14	88.022	-0.078	0.000	0.00			18	0.0	OK*



Summary Wizard of 360 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)				
1.000	S1	26	88.695	-0.080	0.000	0.09			0.6	OK	
1.001	S2	25	88.575	-0.070	0.000	0.20			1.3	OK	
2.000	S3RE	26	88.597	-0.078	0.000	0.11			0.7	OK	
1.002	S4	25	88.365	-0.060	0.000	0.34			2.0	OK	
1.003	Soakaway	23	88.013	-0.087	0.000	0.00			42	0.0	OK*



Summary Wizard of 7200 minute 100 year Summer I+30% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1 Number of Time/Area Diagrams 0  
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Overflow				
1.000	S1	82	88.679	-0.096	0.000	0.01		0.1	OK	
1.001	S2	82	88.554	-0.091	0.000	0.02		0.1	OK	
2.000	S3RE	82	88.580	-0.095	0.000	0.01		0.1	OK	
1.002	S4	82	88.337	-0.088	0.000	0.03		0.2	OK	
1.003	Soakaway	82	88.001	-0.099	0.000	0.00		600 0.0	OK*	



Summary Wizard of 480 minute 100 year Summer I+30% for Storm

Simulation Criteria

```

Areal Reduction Factor 1.000   Additional Flow - % of Total Flow 10.000
Hot Start (mins) 0             MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0         Inlet Coeffiecient 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 Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0
    
```

Synthetic Rainfall Details

```

Rainfall Model      FSR      Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm)         20.000 Cv (Winter) 0.840
    
```

```

Margin for Flood Risk Warning (mm) 450.0     DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON
    
```

```

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(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 30
    
```

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S1	29	88.693	-0.082	0.000	0.07		0.5	OK	
1.001	S2	29	88.571	-0.074	0.000	0.16		1.0	OK	
2.000	S3RE	28	88.595	-0.080	0.000	0.09		0.6	OK	
1.002	S4	29	88.360	-0.065	0.000	0.27		1.6	OK	
1.003	Soakaway	28	88.010	-0.090	0.000	0.00		56	0.0	OK*

Summary Wizard of 600 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Half Drain    Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.    (l/s)	Time (mins)	
1.000	S1	33	88.691	-0.084	0.000	0.06	0.4	OK
1.001	S2	33	88.569	-0.076	0.000	0.13	0.9	OK
2.000	S3RE	33	88.593	-0.082	0.000	0.07	0.5	OK
1.002	S4	33	88.357	-0.068	0.000	0.23	1.3	OK
1.003	Soakaway	32	88.009	-0.091	0.000	0.00	60    0.0	OK*



Summary Wizard of 720 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model     FSR     Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)     20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0     DVD Status OFF  
 Analysis Timestep     Fine Inertia Status OFF  
 DTS Status     ON

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(s) (years)     1, 30, 100  
 Climate Change (%)     0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Half Drain Pipe		Status
							Time (mins)	Flow (l/s)	
1.000	S1	37	88.690	-0.085	0.000	0.05		0.3	OK
1.001	S2	37	88.567	-0.078	0.000	0.11		0.7	OK
2.000	S3RE	37	88.591	-0.084	0.000	0.06		0.4	OK
1.002	S4	37	88.355	-0.070	0.000	0.20		1.2	OK
1.003	Soakaway	37	88.007	-0.093	0.000	0.00	84	0.0	OK*

Summary Wizard of 960 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

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(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		
1.000	S1	41	88.688	-0.087	0.000	0.04		0.3	OK	
1.001	S2	41	88.565	-0.080	0.000	0.09		0.6	OK	
2.000	S3RE	41	88.589	-0.086	0.000	0.05		0.3	OK	
1.002	S4	41	88.351	-0.074	0.000	0.16		0.9	OK	
1.003	Soakaway	41	88.006	-0.094	0.000	0.00		112	0.0 OK*	

Summary Wizard of 1440 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	51	88.686	-0.089	0.000	0.03		0.2	OK	
1.001	S2	51	88.562	-0.083	0.000	0.07		0.4	OK	
2.000	S3RE	51	88.587	-0.088	0.000	0.04		0.2	OK	
1.002	S4	51	88.347	-0.078	0.000	0.11		0.7	OK	
1.003	Soakaway	51	88.004	-0.096	0.000	0.00	144	0.0	OK*	



Summary Wizard of 2160 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	58	88.685	-0.090	0.000	0.02		0.1	OK	
1.001	S2	59	88.559	-0.086	0.000	0.05		0.3	OK	
2.000	S3RE	59	88.586	-0.089	0.000	0.03		0.2	OK	
1.002	S4	59	88.344	-0.081	0.000	0.08		0.5	OK	
1.003	Soakaway	59	88.003	-0.097	0.000	0.00		216	0.0	OK*



Summary Wizard of 2880 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Time (mins)			
1.000	S1	64	88.683	-0.092	0.000	0.02			0.1	OK	
1.001	S2	64	88.558	-0.087	0.000	0.04			0.3	OK	
2.000	S3RE	64	88.585	-0.090	0.000	0.02			0.1	OK	
1.002	S4	64	88.342	-0.083	0.000	0.07			0.4	OK	
1.003	Soakaway	64	88.003	-0.097	0.000	0.00			288 0.0	OK*	

Summary Wizard of 4320 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840  
 Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
								Time (mins)	Flow (l/s)	
1.000	S1	72	88.681	-0.094	0.000	0.01		0.1	OK	
1.001	S2	72	88.556	-0.089	0.000	0.03		0.2	OK	
2.000	S3RE	72	88.582	-0.093	0.000	0.02		0.1	OK	
1.002	S4	72	88.339	-0.086	0.000	0.05		0.3	OK	
1.003	Soakaway	72	88.002	-0.098	0.000	0.00	384	0.0	OK*	

Summary Wizard of 240 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water      Surcharged      Flooded			Half Drain Pipe		Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	S1	16	88.698	-0.077	0.000	0.12		0.8	OK
1.001	S2	16	88.580	-0.065	0.000	0.27		1.8	OK
2.000	S3RE	16	88.600	-0.075	0.000	0.15		1.0	OK
1.002	S4	16	88.373	-0.052	0.000	0.47		2.7	OK
1.003	Soakaway	16	88.018	-0.082	0.000	0.00		28    0.0	OK*

Summary Wizard of 5760 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840  
 Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Level (m)					
1.000	S1	77	88.680	-0.095	0.000	0.01		0.1	OK	
1.001	S2	77	88.555	-0.090	0.000	0.02		0.1	OK	
2.000	S3RE	77	88.581	-0.094	0.000	0.01		0.1	OK	
1.002	S4	77	88.338	-0.087	0.000	0.04		0.2	OK	
1.003	Soakaway	77	88.001	-0.099	0.000	0.00	528	0.0	OK*	

Summary Wizard of 8640 minute 100 year Summer I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840  
 Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )			Time (mins)	Flow (l/s)	
1.000	S1	86	88.678	-0.097	0.000	0.01		0.0	OK	
1.001	S2	86	88.553	-0.092	0.000	0.02		0.1	OK	
2.000	S3RE	86	88.579	-0.096	0.000	0.01		0.1	OK	
1.002	S4	86	88.336	-0.089	0.000	0.03		0.2	OK	
1.003	Soakaway	86	88.001	-0.099	0.000	0.00	720	0.0	OK*	

Summary Wizard of 60 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model     FSR     Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)     20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0     DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )				
1.000	S1	32	88.691	-0.084	0.000	0.06	0.4	OK	
1.001	S2	32	88.569	-0.076	0.000	0.13	0.9	OK	
2.000	S3RE	32	88.593	-0.082	0.000	0.07	0.5	OK	
1.002	S4	32	88.357	-0.068	0.000	0.23	1.3	OK	
1.003	Soakaway	33	88.009	-0.091	0.000	0.00	12	0.0	OK*

Summary Wizard of 15 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1 Number of Time/Area Diagrams 0  
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m³)				
1.000	S1	17	88.698	-0.077	0.000	0.12	0.8	OK	
1.001	S2	19	88.578	-0.067	0.000	0.24	1.5	OK	
2.000	S3RE	17	88.600	-0.075	0.000	0.14	0.9	OK	
1.002	S4	19	88.370	-0.055	0.000	0.42	2.5	OK	
1.003	Soakaway	19	88.015	-0.085	0.000	0.00	5 0.0	OK*	

Summary Wizard of 30 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)			
1.000	S1	23	88.695	-0.080	0.000	0.09		0.6	OK	
1.001	S2	26	88.575	-0.070	0.000	0.19		1.3	OK	
2.000	S3RE	23	88.597	-0.078	0.000	0.11		0.7	OK	
1.002	S4	26	88.365	-0.060	0.000	0.34		2.0	OK	
1.003	Soakaway	26	88.012	-0.088	0.000	0.00		7 0.0	OK*	



Summary Wizard of 600 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

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(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Half Drain	Pipe	Status
							Time (mins)	Flow (l/s)	
1.000	S1	73	88.681	-0.094	0.000	0.01		0.1	OK
1.001	S2	73	88.556	-0.089	0.000	0.03		0.2	OK
2.000	S3RE	73	88.582	-0.093	0.000	0.01		0.1	OK
1.002	S4	73	88.339	-0.086	0.000	0.05		0.3	OK
1.003	Soakaway	73	88.002	-0.098	0.000	0.00	100	0.0	OK*

Summary Wizard of 120 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	S1	45	88.688	-0.087	0.000	0.04		0.3	OK
1.001	S2	44	88.565	-0.080	0.000	0.09		0.6	OK
2.000	S3RE	45	88.589	-0.086	0.000	0.05		0.3	OK
1.002	S4	45	88.350	-0.075	0.000	0.15		0.9	OK
1.003	Soakaway	45	88.006	-0.094	0.000	0.00		24 0.0	OK*









Summary Wizard of 180 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	52	88.686	-0.089	0.000	0.03		0.2	OK	
1.001	S2	52	88.562	-0.083	0.000	0.06		0.4	OK	
2.000	S3RE	52	88.587	-0.088	0.000	0.04		0.2	OK	
1.002	S4	52	88.347	-0.078	0.000	0.11		0.7	OK	
1.003	Soakaway	52	88.004	-0.096	0.000	0.00		33	0.0	OK*



Summary Wizard of 720 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

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(s) (years) 1, 30, 100  
Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Storm Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	S1	76	88.680	-0.095	0.000	0.01		0.1	OK
1.001	S2	75	88.555	-0.090	0.000	0.02		0.2	OK
2.000	S3RE	76	88.581	-0.094	0.000	0.01		0.1	OK
1.002	S4	75	88.338	-0.087	0.000	0.04		0.2	OK
1.003	Soakaway	75	88.002	-0.098	0.000	0.00		132 0.0	OK*



Summary Wizard of 960 minute 1 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000    Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1    Number of Time/Area Diagrams 0  
 Number of Offline Controls 0    Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water			Surcharged		Flooded		Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)			
1.000	S1	81	88.679	-0.096	0.000	0.01				0.1	OK	
1.001	S2	81	88.554	-0.091	0.000	0.02				0.1	OK	
2.000	S3RE	81	88.580	-0.095	0.000	0.01				0.1	OK	
1.002	S4	81	88.337	-0.088	0.000	0.03				0.2	OK	
1.003	Soakaway	80	88.001	-0.099	0.000	0.00				176	0.0	OK*

Summary Wizard of 1440 minute 1 year Winter I+0% for Storm

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

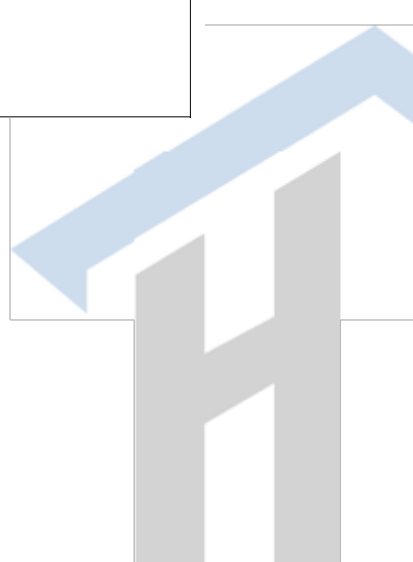
Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	88	88.678	-0.097	0.000	0.01		0.0	OK	
1.001	S2	88	88.552	-0.093	0.000	0.01		0.1	OK	
2.000	S3RE	88	88.579	-0.096	0.000	0.01		0.1	OK	
1.002	S4	88	88.336	-0.089	0.000	0.02		0.1	OK	
1.003	Soakaway	88	88.001	-0.099	0.000	0.00	240	0.0	OK*	



Summary Wizard of 2160 minute 1 year Winter I+0% for Storm

Simulation Criteria

```

Areal Reduction Factor 1.000   Additional Flow - % of Total Flow 10.000
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 Storage Structures 1
Number of Online Controls 1     Number of Time/Area Diagrams 0
Number of Offline Controls 0    Number of Real Time Controls 0
    
```

Synthetic Rainfall Details

```

Rainfall Model      FSR      Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm)         20.000 Cv (Winter) 0.840
    
```

```

Margin for Flood Risk Warning (mm) 450.0   DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON
    
```

```

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(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 30
    
```

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)			
1.000	S1	96	88.677	-0.098	0.000	0.00		0.0	OK	
1.001	S2	96	88.550	-0.095	0.000	0.01		0.1	OK	
2.000	S3RE	96	88.578	-0.097	0.000	0.01		0.0	OK	
1.002	S4	96	88.334	-0.091	0.000	0.02		0.1	OK	
1.003	Soakaway	96	88.001	-0.099	0.000	0.00		360	0.0	OK*



Summary Wizard of 4320 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow				
1.000	S1	106	88.676	-0.099	0.000	0.00			0.0	OK	
1.001	S2	106	88.548	-0.097	0.000	0.01			0.0	OK	
2.000	S3RE	106	88.577	-0.098	0.000	0.00			0.0	OK	
1.002	S4	106	88.330	-0.095	0.000	0.01			0.1	OK	
1.003	Soakaway	106	88.000	-0.100	0.000	0.00		720	0.0	OK*	

Summary Wizard of 2880 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Time (mins)	Flow (l/s)	
1.000	S1	102	88.677	-0.098	0.000	0.00			0.0	OK
1.001	S2	102	88.549	-0.096	0.000	0.01			0.1	OK
2.000	S3RE	102	88.577	-0.098	0.000	0.00			0.0	OK
1.002	S4	102	88.332	-0.093	0.000	0.02			0.1	OK
1.003	Soakaway	102	88.001	-0.099	0.000	0.00		480	0.0	OK*

Summary Wizard of 5760 minute 1 year Winter I+0% for Storm

Simulation Criteria

```

Areal Reduction Factor 1.000   Additional Flow - % of Total Flow 10.000
  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 Storage Structures 1
Number of Online Controls 1   Number of Time/Area Diagrams 0
Number of Offline Controls 0   Number of Real Time Controls 0
  
```

Synthetic Rainfall Details

```

Rainfall Model           FSR           Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm)              20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0   DVD Status OFF
Analysis Timestep       Fine Inertia Status OFF
DTS Status              ON
  
```

```

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(s) (years)                    1, 30, 100
Climate Change (%)                          0, 0, 30
  
```

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Cap.				
1.000	S1	110	88.676	-0.099	0.000	0.00		0.0	OK	
1.001	S2	110	88.548	-0.097	0.000	0.01		0.0	OK	
2.000	S3RE	110	88.576	-0.099	0.000	0.00		0.0	OK	
1.002	S4	110	88.329	-0.096	0.000	0.01		0.1	OK	
1.003	Soakaway	110	88.000	-0.100	0.000	0.00		912 0.0	OK*	



Summary Wizard of 8640 minute 1 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged				Flooded		Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)		
1.000	S1	113	88.676	-0.099	0.000	0.00			0.0	OK	
1.001	S2	113	88.547	-0.098	0.000	0.00			0.0	OK	
2.000	S3RE	113	88.576	-0.099	0.000	0.00			0.0	OK	
1.002	S4	113	88.328	-0.097	0.000	0.01			0.0	OK	
1.003	Soakaway	113	88.000	-0.100	0.000	0.00		1392	0.0	OK*	





Summary Wizard of 15 minute 30 year Winter I+0% for Storm

Simulation Criteria

```

Areal Reduction Factor 1.000   Additional Flow - % of Total Flow 10.000
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 Storage Structures 1
Number of Online Controls 1     Number of Time/Area Diagrams 0
Number of Offline Controls 0    Number of Real Time Controls 0
    
```

Synthetic Rainfall Details

```

Rainfall Model      FSR      Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm)         20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0   DVD Status OFF
Analysis Timestep   Fine Inertia Status OFF
DTS Status         ON
    
```

```

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(s) (years)  1, 30, 100
Climate Change (%)        0, 0, 30
    
```

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)	Cap.			
1.000	S1	6	88.712	-0.063	0.000	0.29		1.9	
1.001	S2	6	88.605	-0.040	0.000	0.65		4.2	
2.000	S3RE	6	88.616	-0.059	0.000	0.34		2.2	
1.002	S4	6	88.433	0.008	0.000	1.10		6.5	
1.003	Soakaway	6	88.040	-0.060	0.000	0.00	5	0.0	

US/MH		
PN	Name	Status
1.000	S1	OK
1.001	S2	OK
2.000	S3RE	OK
1.002	S4	SURCHARGED
1.003	Soakaway	OK*

Summary Wizard of 30 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1 Number of Time/Area Diagrams 0  
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S1	10	88.707	-0.068	0.000	0.23			1.5	OK
1.001	S2	10	88.595	-0.050	0.000	0.50			3.2	OK
2.000	S3RE	10	88.610	-0.065	0.000	0.27			1.8	OK
1.002	S4	10	88.396	-0.029	0.000	0.85			5.0	OK
1.003	Soakaway	10	88.032	-0.068	0.000	0.00		7	0.0	OK*







Summary Wizard of 180 minute 30 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S1	30	88.692	-0.083	0.000	0.07			0.4	OK
1.001	S2	30	88.571	-0.074	0.000	0.15			1.0	OK
2.000	S3RE	30	88.594	-0.081	0.000	0.08			0.5	OK
1.002	S4	30	88.359	-0.066	0.000	0.26			1.5	OK
1.003	Soakaway	30	88.010	-0.090	0.000	0.00		30	0.0	OK*

Summary Wizard of 240 minute 30 year Winter I+0% for Storm

Simulation Criteria

```

Areal Reduction Factor 1.000   Additional Flow - % of Total Flow 10.000
    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 Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0
  
```

Synthetic Rainfall Details

```

Rainfall Model           FSR           Ratio R 0.400
    Region England and Wales Cv (Summer) 0.750
    M5-60 (mm)           20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0           DVD Status OFF
    Analysis Timestep Fine Inertia Status OFF
    DTS Status           ON
  
```

```

    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(s) (years)           1, 30, 100
Climate Change (%)                 0, 0, 30
  
```

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded			Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)				
1.000	S1	34	88.690	-0.085	0.000	0.05			0.4	OK	
1.001	S2	34	88.568	-0.077	0.000	0.12			0.8	OK	
2.000	S3RE	34	88.591	-0.084	0.000	0.06			0.4	OK	
1.002	S4	34	88.356	-0.069	0.000	0.21			1.2	OK	
1.003	Soakaway	34	88.008	-0.092	0.000	0.00		44	0.0	OK*	

Summary Wizard of 360 minute 30 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)	
1.000	S1	42	88.688	-0.087	0.000	0.04			0.3	OK
1.001	S2	42	88.565	-0.080	0.000	0.09			0.6	OK
2.000	S3RE	42	88.589	-0.086	0.000	0.05			0.3	OK
1.002	S4	42	88.351	-0.074	0.000	0.15			0.9	OK
1.003	Soakaway	42	88.006	-0.094	0.000	0.00			66 0.0	OK*





Summary Wizard of 960 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000    Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1    Number of Time/Area Diagrams 0  
 Number of Offline Controls 0    Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m³)	Flow					
1.000	S1	61	88.684	-0.091	0.000	0.02			0.1	OK	
1.001	S2	61	88.558	-0.087	0.000	0.04			0.3	OK	
2.000	S3RE	61	88.585	-0.090	0.000	0.02			0.1	OK	
1.002	S4	61	88.342	-0.083	0.000	0.07			0.4	OK	
1.003	Soakaway	61	88.003	-0.097	0.000	0.00		160	0.0	OK*	









Summary Wizard of 15 minute 100 year Winter I+30% for Storm

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1      Number of Time/Area Diagrams 0  
 Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe	
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
1.000	S1	1	88.773	-0.002	0.000	0.47	3.0
1.001	S2	1	88.746	0.101	0.000	1.01	6.5
2.000	S3RE	1	88.630	-0.045	0.000	0.57	3.8
1.002	S4	1	88.522	0.097	0.000	1.73	10.1
1.003	Soakaway	1	88.091	-0.009	0.000	0.00	4 0.0

PN	US/MH Name	Status
1.000	S1	OK
1.001	S2	SURCHARGED
2.000	S3RE	OK
1.002	S4	FLOOD RISK
1.003	Soakaway	OK*





Summary Wizard of 5760 minute 30 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Half Drain    Pipe			Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	S1	99	88.677	-0.098	0.000	0.00		0.0	OK
1.001	S2	99	88.550	-0.095	0.000	0.01		0.1	OK
2.000	S3RE	99	88.578	-0.097	0.000	0.01		0.0	OK
1.002	S4	99	88.333	-0.092	0.000	0.02		0.1	OK
1.003	Soakaway	99	88.001	-0.099	0.000	0.00		912    0.0	OK*



Summary Wizard of 7200 minute 30 year Winter I+0% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Pipe		Status	
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)		
1.000	S1	103	88.677	-0.098	0.000	0.00			0.0	OK	
1.001	S2	103	88.549	-0.096	0.000	0.01			0.1	OK	
2.000	S3RE	103	88.577	-0.098	0.000	0.00			0.0	OK	
1.002	S4	103	88.332	-0.093	0.000	0.01			0.1	OK	
1.003	Soakaway	103	88.001	-0.099	0.000	0.00			1176	0.0	OK*







Summary Wizard of 60 minute 100 year Winter I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)	Time (mins)	Flow (l/s)		
1.000	S1	8	88.709	-0.066	0.000	0.25			1.6	OK	
1.001	S2	9	88.599	-0.046	0.000	0.55			3.6	OK	
2.000	S3RE	8	88.612	-0.063	0.000	0.30			2.0	OK	
1.002	S4	9	88.403	-0.022	0.000	0.95			5.5	OK	
1.003	Soakaway	8	88.036	-0.064	0.000	0.00			12 0.0	OK*	

Summary Wizard of 240 minute 100 year Winter I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	S1	22	88.695	-0.080	0.000	0.09		0.6	OK
1.001	S2	22	88.575	-0.070	0.000	0.20		1.3	OK
2.000	S3RE	22	88.597	-0.078	0.000	0.11		0.7	OK
1.002	S4	22	88.366	-0.059	0.000	0.35		2.0	OK
1.003	Soakaway	22	88.013	-0.087	0.000	0.00	44	0.0	OK*

Summary Wizard of 120 minute 100 year Winter I+30% for Storm

Simulation Criteria

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Areal Reduction Factor 1.000  Additional Flow - % of Total Flow 10.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coeffiecient 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
  
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Number of Input Hydrographs 0 Number of Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0
  
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Synthetic Rainfall Details

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Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 20.000 Cv (Winter) 0.840
  
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Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON
  
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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(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 30
  
```

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S1	14	88.701	-0.074	0.000	0.16		1.0	OK	
1.001	S2	14	88.585	-0.060	0.000	0.34		2.2	OK	
2.000	S3RE	14	88.604	-0.071	0.000	0.18		1.2	OK	
1.002	S4	13	88.380	-0.045	0.000	0.59		3.4	OK	
1.003	Soakaway	13	88.022	-0.078	0.000	0.00		24 0.0	OK*	



Summary Wizard of 180 minute 100 year Winter I+30% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1 Number of Time/Area Diagrams 0  
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
1.000	S1	19	88.698	-0.077	0.000	0.12		0.8	OK
1.001	S2	18	88.579	-0.066	0.000	0.25		1.7	OK
2.000	S3RE	19	88.599	-0.076	0.000	0.14		0.9	OK
1.002	S4	18	88.371	-0.054	0.000	0.44		2.6	OK
1.003	Soakaway	17	88.017	-0.083	0.000	0.00		33 0.0	OK*















Summary Wizard of 1440 minute 100 year Winter I+30% for Storm

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1      Number of Time/Area Diagrams 0  
 Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap. (l/s)	Overflow (l/s)				
1.000	S1	59	88.685	-0.090	0.000	0.02			0.1	OK	
1.001	S2	58	88.559	-0.086	0.000	0.05			0.3	OK	
2.000	S3RE	58	88.586	-0.089	0.000	0.03			0.2	OK	
1.002	S4	58	88.344	-0.081	0.000	0.08			0.5	OK	
1.003	Soakaway	58	88.003	-0.097	0.000	0.00			240	0.0	OK*



Summary Wizard of 2880 minute 100 year Winter I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )			Time (mins)	Flow (l/s)	
1.000	S1	71	88.681	-0.094	0.000	0.01		0.1	OK	
1.001	S2	71	88.556	-0.089	0.000	0.03		0.2	OK	
2.000	S3RE	71	88.582	-0.093	0.000	0.02		0.1	OK	
1.002	S4	71	88.339	-0.086	0.000	0.05		0.3	OK	
1.003	Soakaway	71	88.002	-0.098	0.000	0.00	480	0.0	OK*	

Summary Wizard of 4320 minute 100 year Winter I+30% for Storm

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1      Number of Time/Area Diagrams 0  
 Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain		Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
1.000	S1	79	88.679	-0.096	0.000	0.01		0.1	OK
1.001	S2	79	88.555	-0.090	0.000	0.02		0.1	OK
2.000	S3RE	79	88.580	-0.095	0.000	0.01		0.1	OK
1.002	S4	79	88.337	-0.088	0.000	0.03		0.2	OK
1.003	Soakaway	79	88.001	-0.099	0.000	0.00		720 0.0	OK*

Summary Wizard of 5760 minute 100 year Winter I+30% for Storm

Simulation Criteria

Areal Reduction Factor 1.000      Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1      Number of Time/Area Diagrams 0  
 Number of Offline Controls 0      Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840  
 Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m³)	Cap.				
1.000	S1	85	88.678	-0.097	0.000	0.01		0.0	OK	
1.001	S2	85	88.553	-0.092	0.000	0.02		0.1	OK	
2.000	S3RE	85	88.579	-0.096	0.000	0.01		0.1	OK	
1.002	S4	85	88.336	-0.089	0.000	0.03		0.2	OK	
1.003	Soakaway	85	88.001	-0.099	0.000	0.00		912	0.0	OK*

Summary Wizard of 7200 minute 100 year Winter I+30% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales    Cv (Summer) 0.750  
 M5-60 (mm)    20.000    Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 1, 30, 100  
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	91	88.678	-0.097	0.000	0.01		0.0	OK	
1.001	S2	91	88.551	-0.094	0.000	0.01		0.1	OK	
2.000	S3RE	91	88.578	-0.097	0.000	0.01		0.0	OK	
1.002	S4	91	88.335	-0.090	0.000	0.02		0.1	OK	
1.003	Soakaway	91	88.001	-0.099	0.000	0.00	1176	0.0	OK*	



Summary Wizard of 60 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.000	S1	5	88.715	-0.060	0.000	0.33		2.1	
1.001	S2	5	88.610	-0.035	0.000	0.73		4.7	
2.000	S3RE	5	88.619	-0.056	0.000	0.39		2.5	
1.002	S4	5	88.452	0.027	0.000	1.24		7.3	
1.003	Soakaway	5	88.046	-0.054	0.000	0.00	8	0.0	

US/MH		
PN	Name	Status
1.000	S1	OK
1.001	S2	OK
2.000	S3RE	OK
1.002	S4	FLOOD RISK
1.003	Soakaway	OK*











Summary Wizard of 720 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	18	88.690	-0.085	0.000	0.06		0.4	OK	
1.001	S2	18	88.568	-0.077	0.000	0.12		0.8	OK	
2.000	S3RE	18	88.592	-0.083	0.000	0.07		0.4	OK	
1.002	S4	18	88.356	-0.069	0.000	0.21		1.2	OK	
1.003	Soakaway	18	88.008	-0.092	0.000	0.00		84	0.0    OK*	



Summary Wizard of 240 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		
1.000	S1	10	88.699	-0.076	0.000	0.13		0.9	OK	
1.001	S2	10	88.582	-0.063	0.000	0.29		1.9	OK	
2.000	S3RE	10	88.601	-0.074	0.000	0.16		1.0	OK	
1.002	S4	10	88.375	-0.050	0.000	0.50		2.9	OK	
1.003	Soakaway	10	88.019	-0.081	0.000	0.00		24 0.0	OK*	

Summary Wizard of 8640 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Half Drain    Pipe		Status		
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		Time (mins)	Flow (l/s)
1.000	S1	34	88.679	-0.096	0.000	0.01		0.1	OK	
1.001	S2	34	88.553	-0.092	0.000	0.02		0.1	OK	
2.000	S3RE	34	88.579	-0.096	0.000	0.01		0.1	OK	
1.002	S4	34	88.336	-0.089	0.000	0.03		0.2	OK	
1.003	Soakaway	34	88.001	-0.099	0.000	0.00		720	0.0	OK*



Summary Wizard of 7200 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water			Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)					
1.000	S1	32	88.679	-0.096	0.000	0.01				0.1	OK	
1.001	S2	32	88.554	-0.091	0.000	0.02				0.1	OK	
2.000	S3RE	32	88.580	-0.095	0.000	0.01				0.1	OK	
1.002	S4	32	88.337	-0.088	0.000	0.03				0.2	OK	
1.003	Soakaway	32	88.001	-0.099	0.000	0.00			552	0.0	OK*	



Summary Wizard of 5760 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep      Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Storm Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	S1	30	88.680	-0.095	0.000	0.01		0.1	OK
1.001	S2	30	88.555	-0.090	0.000	0.02		0.2	OK
2.000	S3RE	30	88.581	-0.094	0.000	0.01		0.1	OK
1.002	S4	30	88.338	-0.087	0.000	0.04		0.2	OK
1.003	Soakaway	30	88.002	-0.098	0.000	0.00		456 0.0	OK*

Summary Wizard of 360 minute 100 year Summer I+40% for Storm

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

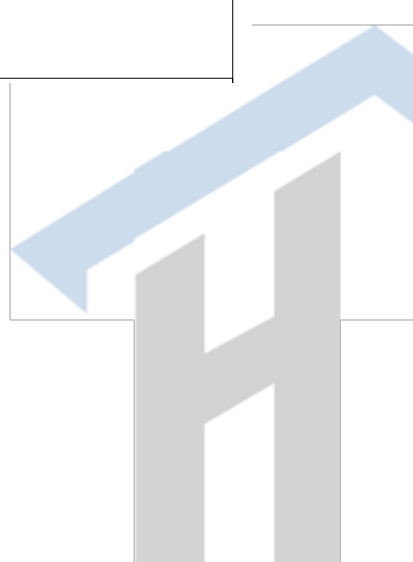
Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )		Time (mins)	Flow (l/s)	
1.000	S1	13	88.696	-0.079	0.000	0.10		0.6	OK
1.001	S2	13	88.576	-0.069	0.000	0.21		1.4	OK
2.000	S3RE	13	88.597	-0.078	0.000	0.12		0.8	OK
1.002	S4	13	88.367	-0.058	0.000	0.37		2.2	OK
1.003	Soakaway	13	88.014	-0.086	0.000	0.00	36	0.0	OK*



Summary Wizard of 1440 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Flow					
1.000	S1	23	88.687	-0.088	0.000	0.03		0.2	OK	
1.001	S2	23	88.562	-0.083	0.000	0.07		0.5	OK	
2.000	S3RE	23	88.588	-0.087	0.000	0.04		0.3	OK	
1.002	S4	23	88.348	-0.077	0.000	0.12		0.7	OK	
1.003	Soakaway	23	88.005	-0.095	0.000	0.00	168	0.0	OK*	

Summary Wizard of 2160 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water			Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)					
1.000	S1	24	88.685	-0.090	0.000	0.02				0.2	OK	
1.001	S2	25	88.560	-0.085	0.000	0.05				0.3	OK	
2.000	S3RE	25	88.586	-0.089	0.000	0.03				0.2	OK	
1.002	S4	25	88.344	-0.081	0.000	0.09				0.5	OK	
1.003	Soakaway	25	88.003	-0.097	0.000	0.00			216	0.0	OK*	

Summary Wizard of 2880 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	S1	26	88.684	-0.091	0.000	0.02			0.1	OK
1.001	S2	26	88.558	-0.087	0.000	0.04			0.3	OK
2.000	S3RE	26	88.585	-0.090	0.000	0.02			0.1	OK
1.002	S4	26	88.343	-0.082	0.000	0.07			0.4	OK
1.003	Soakaway	26	88.003	-0.097	0.000	0.00		264	0.0	OK*

Summary Wizard of 4320 minute 100 year Summer I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years)    100  
 Climate Change (%)    40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)	
1.000	S1	29	88.682	-0.093	0.000	0.01		0.1	OK
1.001	S2	29	88.556	-0.089	0.000	0.03		0.2	OK
2.000	S3RE	29	88.583	-0.092	0.000	0.02		0.1	OK
1.002	S4	29	88.340	-0.085	0.000	0.05		0.3	OK
1.003	Soakaway	29	88.002	-0.098	0.000	0.00	384	0.0	OK*



Summary Wizard of 960 minute 100 year Summer I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000  
 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 Storage Structures 1  
 Number of Online Controls 1 Number of Time/Area Diagrams 0  
 Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m³)					
1.000	S1	20	88.689	-0.086	0.000	0.04		0.3	OK	
1.001	S2	20	88.566	-0.079	0.000	0.10		0.6	OK	
2.000	S3RE	20	88.590	-0.085	0.000	0.05		0.3	OK	
1.002	S4	20	88.352	-0.073	0.000	0.17		1.0	OK	
1.003	Soakaway	20	88.006	-0.094	0.000	0.00		96 0.0	OK*	



Summary Wizard of 10080 minute 100 year Winter I+30% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000
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 Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 0
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

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(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 30

Table with columns: PN, US/MH Name, Storm Rank, Water Level (m), Surcharged Depth (m), Flooded Volume (m³), Flow / Overflow Cap. (l/s), Half Drain Time (mins), Pipe Flow (l/s), Status. Contains 6 rows of data for various pipe nodes.







Summary Wizard of 360 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840  
 Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Flow / Overflow		Half Drain	Pipe	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Cap.	(l/s)	Time (mins)	Flow (l/s)	
1.000	S1	15	88.693	-0.082	0.000	0.07			0.5	OK
1.001	S2	15	88.572	-0.073	0.000	0.16			1.0	OK
2.000	S3RE	15	88.595	-0.080	0.000	0.09			0.6	OK
1.002	S4	15	88.360	-0.065	0.000	0.27			1.6	OK
1.003	Soakaway	15	88.010	-0.090	0.000	0.00		66	0.0	OK*

Summary Wizard of 480 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000    Additional Flow - % of Total Flow 10.000  
 Hot Start (mins) 0    MADD Factor \* 10m³/ha Storage 2.000  
 Hot Start Level (mm) 0    Inlet Coeffiecient 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 Storage Structures 1  
 Number of Online Controls 1    Number of Time/Area Diagrams 0  
 Number of Offline Controls 0    Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Half Drain Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	
1.000	S1	17	88.690	-0.085	0.000	0.06	0.4	OK
1.001	S2	17	88.569	-0.076	0.000	0.13	0.8	OK
2.000	S3RE	17	88.592	-0.083	0.000	0.07	0.5	OK
1.002	S4	17	88.356	-0.069	0.000	0.22	1.3	OK
1.003	Soakaway	17	88.008	-0.092	0.000	0.00	88 0.0	OK*



Summary Wizard of 30 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water			Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)				
1.000	S1	4	88.720	-0.055	0.000	0.41				2.7	
1.001	S2	4	88.665	0.020	0.000	0.89				5.8	
2.000	S3RE	4	88.624	-0.051	0.000	0.49				3.2	
1.002	S4	4	88.488	0.063	0.000	1.53				9.0	
1.003	Soakaway	4	88.070	-0.030	0.000	0.00			5	0.0	

PN	US/MH Name	Status
1.000	S1	OK
1.001	S2	SURCHARGED
2.000	S3RE	OK
1.002	S4	FLOOD RISK
1.003	Soakaway	OK*



Summary Wizard of 120 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m <sup>3</sup> )					
1.000	S1	9	88.702	-0.073	0.000	0.17		1.1	OK	
1.001	S2	9	88.587	-0.058	0.000	0.37		2.4	OK	
2.000	S3RE	8	88.605	-0.070	0.000	0.20		1.3	OK	
1.002	S4	9	88.383	-0.042	0.000	0.63		3.7	OK	
1.003	Soakaway	8	88.024	-0.076	0.000	0.00		24	0.0	OK*

Summary Wizard of 180 minute 100 year Winter I+40% for Storm

Simulation Criteria

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Areal Reduction Factor 1.000   Additional Flow - % of Total Flow 10.000
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
  
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Number of Input Hydrographs 0   Number of Storage Structures 1
Number of Online Controls 1     Number of Time/Area Diagrams 0
Number of Offline Controls 0    Number of Real Time Controls 0
  
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Synthetic Rainfall Details

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Rainfall Model FSR Ratio R 0.400
Region England and Wales Cv (Summer) 0.750
M5-60 (mm) 20.000 Cv (Winter) 0.840
  
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Margin for Flood Risk Warning (mm) 450.0   DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON
  
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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(s) (years) 100
Climate Change (%) 40
  
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PN	US/MH Name	Storm Rank	Water Surcharged Flooded			Flow / Overflow Cap.	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m³)				
1.000	S1	11	88.698	-0.077	0.000	0.13	0.8	OK	
1.001	S2	11	88.581	-0.064	0.000	0.27	1.8	OK	
2.000	S3RE	11	88.600	-0.075	0.000	0.15	1.0	OK	
1.002	S4	11	88.373	-0.052	0.000	0.47	2.7	OK	
1.003	Soakaway	11	88.018	-0.082	0.000	0.00	33	0.0 OK*	



Summary Wizard of 240 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Overflow Cap. (l/s)					
1.000	S1	12	88.696	-0.079	0.000	0.10			0.6	OK	
1.001	S2	12	88.577	-0.068	0.000	0.22			1.4	OK	
2.000	S3RE	12	88.598	-0.077	0.000	0.12			0.8	OK	
1.002	S4	12	88.367	-0.058	0.000	0.38			2.2	OK	
1.003	Soakaway	12	88.014	-0.086	0.000	0.00		44	0.0	OK*	





Summary Wizard of 8640 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Flow / Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.					
1.000	S1	37	88.678	-0.097	0.000	0.01			0.0	OK	
1.001	S2	37	88.551	-0.094	0.000	0.01			0.1	OK	
2.000	S3RE	37	88.578	-0.097	0.000	0.01			0.0	OK	
1.002	S4	37	88.335	-0.090	0.000	0.02			0.1	OK	
1.003	Soakaway	37	88.001	-0.099	0.000	0.00		1368	0.0	OK*	

Summary Wizard of 600 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep    Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	19	88.689	-0.086	0.000	0.05		0.3	OK	
1.001	S2	19	88.567	-0.078	0.000	0.11		0.7	OK	
2.000	S3RE	19	88.590	-0.085	0.000	0.06		0.4	OK	
1.002	S4	19	88.354	-0.071	0.000	0.18		1.1	OK	
1.003	Soakaway	19	88.007	-0.093	0.000	0.00	100	0.0	OK*	

Summary Wizard of 720 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

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(s) (years) 100  
Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	21	88.688	-0.087	0.000	0.04		0.3	OK	
1.001	S2	21	88.565	-0.080	0.000	0.09		0.6	OK	
2.000	S3RE	21	88.589	-0.086	0.000	0.05		0.3	OK	
1.002	S4	21	88.351	-0.074	0.000	0.16		0.9	OK	
1.003	Soakaway	21	88.006	-0.094	0.000	0.00	120	0.0	OK*	



Summary Wizard of 960 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water			Surcharged		Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)					
1.000	S1	22	88.687	-0.088	0.000	0.03				0.2	OK	
1.001	S2	22	88.563	-0.082	0.000	0.07				0.5	OK	
2.000	S3RE	22	88.588	-0.087	0.000	0.04				0.3	OK	
1.002	S4	22	88.348	-0.077	0.000	0.13				0.7	OK	
1.003	Soakaway	22	88.005	-0.095	0.000	0.00			160	0.0	OK*	

Summary Wizard of 2160 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status      ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded				Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Storm Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.					
1.000	S1	27	88.683	-0.092	0.000	0.02			0.1	OK	
1.001	S2	27	88.558	-0.087	0.000	0.04			0.2	OK	
2.000	S3RE	27	88.585	-0.090	0.000	0.02			0.1	OK	
1.002	S4	27	88.342	-0.083	0.000	0.07			0.4	OK	
1.003	Soakaway	27	88.002	-0.098	0.000	0.00		384	0.0	OK*	

Summary Wizard of 2880 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

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(s) (years) 100  
Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	28	88.682	-0.093	0.000	0.01		0.1	OK	
1.001	S2	28	88.556	-0.089	0.000	0.03		0.2	OK	
2.000	S3RE	28	88.583	-0.092	0.000	0.02		0.1	OK	
1.002	S4	28	88.340	-0.085	0.000	0.05		0.3	OK	
1.003	Soakaway	28	88.002	-0.098	0.000	0.00	480	0.0	OK*	



Summary Wizard of 4320 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840  
 Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged Flooded				Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow					
1.000	S1	31	88.680	-0.095	0.000	0.01			0.1	OK	
1.001	S2	31	88.555	-0.090	0.000	0.02			0.1	OK	
2.000	S3RE	31	88.581	-0.094	0.000	0.01			0.1	OK	
1.002	S4	31	88.337	-0.088	0.000	0.04			0.2	OK	
1.003	Soakaway	31	88.001	-0.099	0.000	0.00		720	0.0	OK*	

Summary Wizard of 5760 minute 100 year Winter I+40% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 10.000  
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 Storage Structures 1  
Number of Online Controls 1 Number of Time/Area Diagrams 0  
Number of Offline Controls 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR Ratio R 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status OFF  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

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(s) (years) 100  
Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
1.000	S1	33	88.679	-0.096	0.000	0.01		0.1	OK	
1.001	S2	33	88.553	-0.092	0.000	0.02		0.1	OK	
2.000	S3RE	33	88.579	-0.096	0.000	0.01		0.1	OK	
1.002	S4	33	88.336	-0.089	0.000	0.03		0.2	OK	
1.003	Soakaway	33	88.001	-0.099	0.000	0.00		912	0.0	OK*





Summary Wizard of 7200 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model      FSR      Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)      20.000 Cv (Winter) 0.840  
 Margin for Flood Risk Warning (mm) 450.0      DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water Surcharged			Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)			
1.000	S1	36	88.678	-0.097	0.000	0.01		0.0	OK	
1.001	S2	36	88.552	-0.093	0.000	0.01		0.1	OK	
2.000	S3RE	36	88.579	-0.096	0.000	0.01		0.1	OK	
1.002	S4	36	88.336	-0.089	0.000	0.02		0.1	OK	
1.003	Soakaway	36	88.001	-0.099	0.000	0.00		1176	0.0	OK*

Summary Wizard of 10080 minute 100 year Winter I+40% for Storm

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

Synthetic Rainfall Details

Rainfall Model    FSR    Ratio R 0.400  
 Region England and Wales Cv (Summer) 0.750  
 M5-60 (mm)    20.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 450.0    DVD Status OFF  
 Analysis Timestep Fine Inertia Status OFF  
 DTS Status    ON

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(s) (years) 100  
 Climate Change (%) 40

PN	US/MH Name	Storm Rank	Water    Surcharged    Flooded			Half Drain    Pipe		Status		
			Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		Time (mins)	Flow (l/s)
1.000	S1	38	88.677	-0.098	0.000	0.00		0.0	OK	
1.001	S2	38	88.550	-0.095	0.000	0.01		0.1	OK	
2.000	S3RE	38	88.578	-0.097	0.000	0.01		0.0	OK	
1.002	S4	38	88.334	-0.091	0.000	0.02		0.1	OK	
1.003	Soakaway	38	88.001	-0.099	0.000	0.00		1656	0.0	OK*

