

STORM SEWER DESIGN by the Modified Rational Method			
Design Criteria for Surface Network 1			
Pipe Sizes STANDARD Manhole Sizes STANDARD			
FSR Rainfall Model - England and Wales			
Return Period (years)	2	PIMP (%)	100
M5-60 (mm)	18.000	Add Flow / Climate Change (%)	0
Ratio R	0.378	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	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.	1.000	Min Slope for Optimisation (1:X)	400
Designed with Level Soffits			
Time Area Diagram for Surface Network 1			
Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.095	4-8	0.045
Total Area Contributing (ha) = 0.140			
Total Pipe Volume (m³) = 3.022			

Network Design Table for Surface Network 1											
« - 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	29.191	0.700	41.7	0.025	5.00	0.0	0.600	o	150	Pipe/Conduit	
2.000	10.079	0.575	17.5	0.009	5.00	0.0	0.600	o	100	Pipe/Conduit	
1.001	22.400	0.300	74.7	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.002	9.672	0.121	79.9	0.015	0.00	0.0	0.600	o	225	Pipe/Conduit	
3.000	23.445	0.546	42.9	0.092	5.00	0.0	0.600	o	225	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	50.00	5.31	27.650	0.025	0.0	0.0	0.0	1.56	27.6	4.5	
2.000	50.00	5.09	27.575	0.009	0.0	0.0	0.0	1.85	14.6	1.5	
1.001	50.00	5.56	26.875	0.033	0.0	0.0	0.0	1.52	60.2	6.0	
1.002	50.00	5.67	26.575	0.048	0.0	0.0	0.0	1.46	58.2	8.7	
3.000	50.00	5.20	27.000	0.092	0.0	0.0	0.0	2.00	79.6	16.5	

Network Design Table for Surface Network 1

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
1.003	2.843	0.028	100.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.004	2.690	-1.204	-2.2	0.000	0.00	0.0	0.600	o	225	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)
1.003	50.00	5.70	26.454	0.140	0.0	0.0	0.0	1.31	52.0	25.2
1.004	50.00	6.07	26.426	0.140	0.0	0.0	0.0	0.12	4.9«	25.2

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Area Summary for Surface Network 1

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	User	-	100	0.025	0.025	0.025
2.000	User	-	100	0.009	0.009	0.009
1.001	-	-	100	0.000	0.000	0.000
1.002	User	-	100	0.015	0.015	0.015
3.000	User	-	100	0.025	0.025	0.025
	User	-	100	0.067	0.067	0.092
1.003	-	-	100	0.000	0.000	0.000
1.004	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.140	0.140	0.140

Free Flowing Outfall Details for Surface Network 1

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D, L (mm)	W (mm)
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1.004	PS7	28.150	27.630	0.000	180	0
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Simulation Criteria for Surface Network 1

Volumetric Runoff Coeff	1.000	Additional Flow - % of Total Flow	40.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	0.000
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 Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 0 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	200	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.000	Storm Duration (mins)	15
Ratio R	0.378		

Storage Structures for Surface Network 1

Cellular Storage Manhole: S1, DS/PN: 1.004

Invert Level (m) 26.426 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.15336 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.15336

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	130.0	130.0	0.800	130.0	179.6	0.801	0.0	179.6

Volume Summary (Static)

Length Calculations based on Centre-Centre

Pipe Number	USMH Name	Manhole Volume (m³)	Pipe Volume (m³)	Storage Structure Volume (m³)	Total Volume (m³)
1.000	PS1	0.097	0.516	0.000	0.613
2.000	PS6	0.119	0.079	0.000	0.198
1.001	PS2	0.394	0.891	0.000	1.285
1.002	PS3	0.448	0.385	0.000	0.832
3.000	PS5	0.307	0.932	0.000	1.239
1.003	PS4	1.905	0.113	0.000	2.018
1.004	S1	0.474	0.107	98.841	99.422
Total		3.743	3.022	98.841	105.607

Volume Summary (Static)

Length Calculations based on True Length

Pipe Number	USMH Name	Manhole Volume (m³)	Pipe Volume (m³)	Storage Structure Volume (m³)	Total Volume (m³)
1.000	PS1	0.097	0.507	0.000	0.603
2.000	PS6	0.119	0.075	0.000	0.194
1.001	PS2	0.394	0.867	0.000	1.261
1.002	PS3	0.448	0.349	0.000	0.797
3.000	PS5	0.307	0.896	0.000	1.203
1.003	PS4	1.905	0.077	0.000	1.982
1.004	S1	0.474	0.091	98.841	99.406
Total		3.743	2.862	98.841	105.447

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 40.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
 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 Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 0 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 18.000 Cv (Summer) 1.000
 Region England and Wales Ratio R 0.378 Cv (Winter) 1.000

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

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 0

						Water Surcharged Flooded						
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.
1.000	PS1	15 Summer	2	+0%					27.703	-0.097	0.000	0.26
2.000	PS6	15 Summer	2	+0%					27.603	-0.072	0.000	0.18
1.001	PS2	15 Summer	2	+0%	100/15 Summer				26.938	-0.162	0.000	0.17
1.002	PS3	15 Summer	2	+0%	30/15 Summer				26.735	-0.065	0.000	0.27
3.000	PS5	15 Summer	2	+0%	100/15 Summer				27.093	-0.132	0.000	0.35
1.003	PS4	15 Summer	2	+0%	2/15 Summer				26.717	0.038	0.000	1.29
1.004	S1	120 Summer	2	+0%	30/15 Summer				26.596	-0.055	0.000	0.00

Half Drain Pipe						
PN	US/MH Name	Overflow (l/s)	Time (mins)	Flow (l/s)	Status	Level Exceeded
1.000	PS1			7.0	OK	
2.000	PS6			2.4	OK	
1.001	PS2			9.3	OK	
1.002	PS3			13.0	OK	
3.000	PS5			25.9	OK	
1.003	PS4			38.6	SURCHARGED	
1.004	S1		87	0.0	OK	

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	40.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		
Number of Input Hydrographs	0	Number of Offline Controls	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
		Number of Storage Structures	1
		Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR M5-60 (mm)	18.000	Cv (Summer)	1.000
Region England and Wales	Ratio R	0.378	Cv (Winter)	1.000
Margin for Flood Risk Warning (mm)		300.0		
Analysis Timestep	2.5 Second Increment (Extended)			
DTS Status		OFF		
DVD Status		ON		
Inertia Status		ON		
Profile(s)	Summer and Winter			
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440			
Return Period(s) (years)	2, 30, 100			
Climate Change (%)	0, 0, 0			

						Water Surcharged Flooded						
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.
1.000	PS1	15 Summer	30	+0%					27.726	-0.074	0.000	0.50
2.000	PS6	15 Summer	30	+0%					27.615	-0.060	0.000	0.34
1.001	PS2	15 Summer	30	+0%	100/15 Summer				27.027	-0.073	0.000	0.32
1.002	PS3	15 Summer	30	+0%	30/15 Summer				26.988	0.188	0.000	0.52
3.000	PS5	15 Summer	30	+0%	100/15 Summer				27.158	-0.067	0.000	0.67
1.003	PS4	15 Summer	30	+0%	2/15 Summer				26.912	0.233	0.000	2.45
1.004	S1	120 Winter	30	+0%	30/15 Summer				26.803	0.152	0.000	0.00

Half Drain Pipe						
PN	US/MH Name	Overflow (l/s)	Time (mins)	Flow (l/s)	Status	Level Exceeded
1.000	PS1			13.2	OK	
2.000	PS6			4.6	OK	
1.001	PS2			17.6	OK	
1.002	PS3			25.2	SURCHARGED	
3.000	PS5			48.7	OK	
1.003	PS4			73.2	SURCHARGED	
1.004	S1		135	0.0	SURCHARGED	

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 40.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

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

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 18.000 Cv (Summer) 1.000
Region England and Wales Ratio R 0.378 Cv (Winter) 1.000

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

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 100
Climate Change (%) 20

										Water Surcharged Flooded		
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.
1.000	PS1	15 Summer	100	+20%	100/15 Summer				27.897	0.097	0.000	0.76
2.000	PS6	15 Summer	100	+20%					27.631	-0.044	0.000	0.52
1.001	PS2	15 Summer	100	+20%	100/15 Summer				27.485	0.385	0.000	0.50
1.002	PS3	15 Summer	100	+20%	100/15 Summer				27.415	0.615	0.000	0.80
3.000	PS5	15 Summer	100	+20%	100/15 Summer				27.886	0.661	0.000	1.02
1.003	PS4	15 Summer	100	+20%	100/15 Summer				27.295	0.616	0.000	3.78
1.004	S1	240 Winter	100	+20%	100/15 Summer				27.083	0.432	0.000	0.00

			Half Drain	Pipe		
	US/MH	Overflow	Time	Flow		Level
PN	Name	(l/s)	(mins)	(l/s)	Status	Exceeded
1.000	PS1			20.1	SURCHARGED	
2.000	PS6			7.1	OK	
1.001	PS2			27.6	SURCHARGED	
1.002	PS3			38.3	SURCHARGED	
3.000	PS5			74.2	FLOOD RISK	
1.003	PS4			112.9	SURCHARGED	
1.004	S1		221	0.0	SURCHARGED	

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 40.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
Hot Start Level (mm) 0 Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

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

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 18.000 Cv (Summer) 1.000
Region England and Wales Ratio R 0.378 Cv (Winter) 1.000

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

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 2, 30, 100
Climate Change (%) 0, 0, 0

						Water Surcharged Flooded						
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.
1.000	PS1	15 Summer	100	+0%					27.739	-0.061	0.000	0.64
2.000	PS6	15 Summer	100	+0%					27.621	-0.054	0.000	0.43
1.001	PS2	15 Summer	100	+0%	100/15 Summer				27.266	0.166	0.000	0.41
1.002	PS3	15 Summer	100	+0%	30/15 Summer				27.214	0.414	0.000	0.67
3.000	PS5	15 Summer	100	+0%	100/15 Summer				27.502	0.277	0.000	0.85
1.003	PS4	15 Summer	100	+0%	2/15 Summer				27.094	0.415	0.000	3.16
1.004	S1	120 Winter	100	+0%	30/15 Summer				26.952	0.301	0.000	0.00

Half Drain Pipe							Level	
PN	US/MH Name	Overflow (l/s)	Time (mins)	Flow (l/s)	Status	Level Exceeded		
1.000	PS1			17.1	OK			
2.000	PS6			5.9	OK			
1.001	PS2			22.8	SURCHARGED			
1.002	PS3			32.3	SURCHARGED			
3.000	PS5			61.8	SURCHARGED			
1.003	PS4			94.3	SURCHARGED			
1.004	S1		177	0.0	SURCHARGED			

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	40.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	0.000
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 Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	0	Number of Storage Structures	1	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR M5-60 (mm)	18.000	Cv (Summer)	1.000
Region	England and Wales	Ratio R	0.378	Cv (Winter)

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

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

									Water	Surcharged	Flooded	
	US/MH			Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume
PN	Name	Storm		Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)
1.000	PS1	15 Summer		100	+30%	100/15 Summer				28.073	0.273	0.000
2.000	PS6	15 Summer		100	+30%	100/15 Summer				27.764	0.089	0.000
1.001	PS2	15 Summer		100	+30%	100/15 Summer				27.595	0.495	0.000
1.002	PS3	15 Summer		100	+30%	100/15 Summer				27.515	0.715	0.000
3.000	PS5	15 Summer		100	+30%	100/15 Summer	100/15 Summer			28.085	0.860	0.002
1.003	PS4	15 Summer		100	+30%	100/15 Summer				27.394	0.715	0.000
1.004	S1	240 Winter		100	+30%	100/15 Summer				27.156	0.505	0.000

PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Half Drain	Pipe	Status	Level Exceeded
				Time (mins)	Flow (l/s)		
1.000	PS1	0.82			21.6	FLOOD RISK	
2.000	PS6	0.54			7.3	SURCHARGED	
1.001	PS2	0.55			30.1	SURCHARGED	
1.002	PS3	0.85			40.9	SURCHARGED	
3.000	PS5	1.10			80.3	FLOOD	1
1.003	PS4	4.06			121.3	SURCHARGED	
1.004	S1	0.00		237	0.0	SURCHARGED	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 40.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 Offline Controls 0 Number of Time/Area Diagrams 0
Number of Online Controls 0 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 18.000 Cv (Summer) 1.000
Region England and Wales Ratio R 0.378 Cv (Winter) 1.000

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

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

							Water Level (m)	Surcharged		Flooded Volume (m³)
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood		Depth (m)		
1.000	PS1	15 Summer	100	+40%	100/15 Summer		28.236	0.436		0.000
2.000	PS6	15 Summer	100	+40%	100/15 Summer		27.879	0.204		0.000
1.001	PS2	15 Summer	100	+40%	100/15 Summer		27.665	0.565		0.000
1.002	PS3	15 Summer	100	+40%	100/15 Summer		27.561	0.761		0.000
3.000	PS5	15 Summer	100	+40%	100/15 Summer	100/15 Summer	28.086	0.861		0.776
1.003	PS4	15 Summer	100	+40%	100/15 Summer		27.448	0.769		0.000
1.004	S1	240 Winter	100	+40%	100/15 Summer		27.330	0.679		0.000

			Half Drain		Pipe			Level
PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)	Status		Exceeded
1.000	PS1	0.89			23.5	FLOOD RISK		
2.000	PS6	0.59			8.1	SURCHARGED		
1.001	PS2	0.58			31.7	SURCHARGED		
1.002	PS3	0.93			44.9	SURCHARGED		
3.000	PS5	1.12			81.9	FLOOD	3	
1.003	PS4	4.17			124.8	SURCHARGED		
1.004	S1	0.00		253	0.0	SURCHARGED		