



Project					
Aldi Ruabon					
Made By	Date	Checked By	Date	Rev	Contract No./Sheet number
PSS	May-18				8718 1
<u>INTRODUCTION</u> The proposed foodstore will require surface water drainage which should, under the hierarchical approach of the Building Regulations, be connected to the sewer network. Soakaway testing has been carried out by Earth Environmental & Geotechnical Limited to prove the infiltration rates across the site and these have been used to design soakaway tanks to the store. Two separate tanks will be employed given the size of the car parking areas, one serving the majority of the customer parking area with the second serving the roof and service yard area. Both soakaways will have catch pit manholes immediately upstream and a oil separator to prevent and oils entering the ground.					

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Unit 4 Millbank House Riverside Business Park Wilmslow Cheshire SK9 1BJ	ALDI RUABON MAIN CAR PARK WREXHAM	
Date 09/05/2018 17:06 File 8718 MAIN CAR PARK.srcx	Designed by PSS Checked by	
XP Solutions	Source Control 2017.1.2	

Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 281 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	112.057	0.557	4.3	64.0	O K
30 min Summer	112.251	0.751	4.5	86.3	O K
60 min Summer	112.448	0.948	4.8	108.9	O K
120 min Summer	112.612	1.112	5.0	127.9	O K
180 min Summer	112.665	1.165	5.1	134.0	O K
240 min Summer	112.672	1.172	5.1	134.7	O K
360 min Summer	112.660	1.160	5.0	133.3	O K
480 min Summer	112.637	1.137	5.0	130.7	O K
600 min Summer	112.611	1.111	5.0	127.7	O K
720 min Summer	112.584	1.084	5.0	124.6	O K
960 min Summer	112.526	1.026	4.9	117.9	O K
1440 min Summer	112.407	0.907	4.7	104.2	O K
2160 min Summer	112.236	0.736	4.5	84.7	O K
2880 min Summer	112.087	0.587	4.3	67.4	O K
4320 min Summer	111.851	0.351	4.0	40.4	O K
5760 min Summer	111.691	0.191	3.8	22.0	O K
7200 min Summer	111.594	0.094	3.7	10.8	O K
8640 min Summer	111.550	0.050	3.6	5.7	O K
10080 min Summer	111.544	0.044	3.2	5.1	O K
15 min Winter	112.127	0.627	4.4	72.1	O K
30 min Winter	112.348	0.848	4.6	97.5	O K
60 min Winter	112.576	1.076	4.9	123.7	O K
120 min Winter	112.776	1.276	5.2	146.7	O K
180 min Winter	112.851	1.351	5.3	155.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	103.927	0.0	19
30 min Summer	71.561	0.0	33
60 min Summer	47.182	0.0	62
120 min Summer	30.061	0.0	122
180 min Summer	22.731	0.0	180
240 min Summer	18.489	0.0	216
360 min Summer	13.759	0.0	278
480 min Summer	11.152	0.0	344
600 min Summer	9.466	0.0	412
720 min Summer	8.274	0.0	484
960 min Summer	6.683	0.0	620
1440 min Summer	4.935	0.0	894
2160 min Summer	3.634	0.0	1284
2880 min Summer	2.920	0.0	1672
4320 min Summer	2.141	0.0	2380
5760 min Summer	1.717	0.0	3064
7200 min Summer	1.448	0.0	3744
8640 min Summer	1.260	0.0	4368
10080 min Summer	1.120	0.0	5080
15 min Winter	103.927	0.0	19
30 min Winter	71.561	0.0	33
60 min Winter	47.182	0.0	62
120 min Winter	30.061	0.0	118
180 min Winter	22.731	0.0	176

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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	112.870	1.370	5.3	157.5	O K
360 min Winter	112.851	1.351	5.3	155.3	O K
480 min Winter	112.822	1.322	5.3	151.9	O K
600 min Winter	112.782	1.282	5.2	147.4	O K
720 min Winter	112.739	1.239	5.2	142.4	O K
960 min Winter	112.647	1.147	5.0	131.9	O K
1440 min Winter	112.461	0.961	4.8	110.4	O K
2160 min Winter	112.206	0.706	4.5	81.1	O K
2880 min Winter	111.992	0.492	4.2	56.6	O K
4320 min Winter	111.683	0.183	3.8	21.0	O K
5760 min Winter	111.549	0.049	3.5	5.6	O K
7200 min Winter	111.541	0.041	3.0	4.7	O K
8640 min Winter	111.536	0.036	2.6	4.1	O K
10080 min Winter	111.532	0.032	2.3	3.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
240 min Winter	18.489	0.0	230
360 min Winter	13.759	0.0	292
480 min Winter	11.152	0.0	368
600 min Winter	9.466	0.0	446
720 min Winter	8.274	0.0	522
960 min Winter	6.683	0.0	674
1440 min Winter	4.935	0.0	964
2160 min Winter	3.634	0.0	1364
2880 min Winter	2.920	0.0	1756
4320 min Winter	2.141	0.0	2424
5760 min Winter	1.717	0.0	2936
7200 min Winter	1.448	0.0	3568
8640 min Winter	1.260	0.0	4400
10080 min Winter	1.120	0.0	5024

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.000	Shortest Storm (mins)	15
Ratio R	0.305	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.349

Time (mins)	Area	Time (mins)	Area
From: To: (ha)		From: To: (ha)	
0 4	0.315	4 8	0.034

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Model Details

Storage is Online Cover Level (m) 113.750

Cellular Storage Structure

Invert Level (m) 111.500 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.21132 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.21132

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	121.0	121.0	1.500	121.0	187.0	1.501	0.0	187.0

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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)	2	PIMP (%)	100
M5-60 (mm)	18.000	Add Flow / Climate Change (%)	0
Ratio R	0.305	Minimum Backdrop Height (m)	0.750
Maximum Rainfall (mm/hr)	250	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)	0.75
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	400

Designed with Level Soffits

Network Design Table for Storm

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	22.500	0.129	175.1	0.070	3.00	0.0	0.600	o	150	Pipe/Conduit	
1.001	13.000	0.049	267.2	0.120	0.00	0.0	0.600	o	225	Pipe/Conduit	
2.000	13.000	0.044	296.9	0.099	3.00	0.0	0.600	o	225	Pipe/Conduit	
3.000	23.500	0.739	31.8	0.013	3.00	0.0	0.600	o	100	Pipe/Conduit	
4.000	24.000	0.739	32.5	0.012	3.00	0.0	0.600	o	100	Pipe/Conduit	
2.001	21.500	0.072	296.9	0.035	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.002	7.500	0.073	103.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	10.000	0.027	370.4	0.000	0.00	0.0	0.600	o	300	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	62.38	3.50	112.400	0.070	0.0	0.0	0.0	0.76	13.4	11.8
1.001	60.86	3.77	112.196	0.190	0.0	0.0	0.0	0.80	31.6	31.3
2.000	63.60	3.29	113.180	0.099	0.0	0.0	0.0	0.75	30.0	17.1
3.000	63.62	3.29	114.000	0.013	0.0	0.0	0.0	1.37	10.8	2.2
4.000	63.56	3.29	114.000	0.012	0.0	0.0	0.0	1.36	10.7	2.1
2.001	60.85	3.77	113.136	0.159	0.0	0.0	0.0	0.75	30.0	26.2
1.002	60.42	3.85	112.073	0.349	0.0	0.0	0.0	1.55	109.5	57.1
1.003	59.35	4.06	112.000	0.349	0.0	0.0	0.0	0.81	57.3	57.1

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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	150	SWMH 01	113.600	112.400	1.050	Open Manhole	1200
1.001	o	225	SWMH 02	113.370	112.196	0.949	Open Manhole	1200
2.000	o	225	SWMH 03	114.380	113.180	0.975	Open Manhole	1200
3.000	o	100	ROAD GULLY	114.835	114.000	0.735	Open Manhole	1200
4.000	o	100	ROAD GULLY	114.835	114.000	0.735	Open Manhole	1200
2.001	o	225	SWMH 04	114.150	113.136	0.789	Open Manhole	1200
1.002	o	300	SWMH 05	113.700	112.073	1.327	Open Manhole	1200
1.003	o	300	SWMH 06	113.700	112.000	1.400	Open Manhole	1200

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	22.500	175.1	SWMH 02	113.370	112.271	0.949	Open Manhole	1200
1.001	13.000	267.2	SWMH 05	113.700	112.148	1.327	Open Manhole	1200
2.000	13.000	296.9	SWMH 04	114.150	113.136	0.789	Open Manhole	1200
3.000	23.500	31.8	SWMH 04	114.150	113.261	0.789	Open Manhole	1200
4.000	24.000	32.5	SWMH 04	114.150	113.261	0.789	Open Manhole	1200
2.001	21.500	296.9	SWMH 05	113.700	113.064	0.411	Open Manhole	1200
1.002	7.500	103.0	SWMH 06	113.700	112.000	1.400	Open Manhole	1200
1.003	10.000	370.4	SWMH 06	113.750	111.973	1.477	Open Manhole	0

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Storage Structures for Storm

Cellular Storage Manhole: SWMH 06, DS/PN: 1.003

Invert Level (m) 110.650 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.21132 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.21132

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	121.0	121.0	1.500	121.0	187.0	1.501	0.0	187.0

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Summary Wizard of 15 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	15	112.523	-0.027	0.000	0.95		12.0	OK
1.001	SWMH 02	18	112.371	-0.050	0.000	0.93		25.4	OK
2.000	SWMH 03	15	113.335	-0.070	0.000	0.63		16.4	OK
3.000	ROAD GULLY	13	114.032	-0.068	0.000	0.22		2.2	OK
4.000	ROAD GULLY	13	114.031	-0.069	0.000	0.20		2.1	OK
2.001	SWMH 04	16	113.305	-0.057	0.000	0.91		24.8	OK
1.002	SWMH 05	16	112.270	-0.103	0.000	0.75		50.7	OK
1.003	SWMH 06	42	110.809	-1.491	0.000	0.00		0.0	OK

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Summary Wizard of 30 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH 01	18	112.504	-0.046	0.000	0.81		10.2	OK
1.001	SWMH 02	21	112.359	-0.063	0.000	0.87		23.7	OK
2.000	SWMH 03	19	113.319	-0.086	0.000	0.56		14.4	OK
3.000	ROAD GULLY	18	114.029	-0.071	0.000	0.19		1.9	OK
4.000	ROAD GULLY	18	114.028	-0.072	0.000	0.17		1.8	OK
2.001	SWMH 04	19	113.290	-0.071	0.000	0.80		21.9	OK
1.002	SWMH 05	20	112.254	-0.119	0.000	0.67		45.4	OK
1.003	SWMH 06	40	110.854	-1.446	0.000	0.00		0.0	OK

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Summary Wizard of 60 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	25	112.483	-0.067	0.000	0.57		7.2	OK
1.001	SWMH 02	27	112.333	-0.088	0.000	0.67		18.2	OK
2.000	SWMH 03	26	113.292	-0.113	0.000	0.40		10.3	OK
3.000	ROAD GULLY	25	114.024	-0.076	0.000	0.13		1.4	OK
4.000	ROAD GULLY	25	114.023	-0.077	0.000	0.12		1.3	OK
2.001	SWMH 04	26	113.262	-0.099	0.000	0.57		15.6	OK
1.002	SWMH 05	27	112.226	-0.147	0.000	0.51		34.3	OK
1.003	SWMH 06	38	110.886	-1.414	0.000	0.00		0.0	OK

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Summary Wizard of 120 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH 01	32	112.464	-0.086	0.000	0.38		4.8	OK
1.001	SWMH 02	32	112.306	-0.116	0.000	0.47		12.9	OK
2.000	SWMH 03	32	113.266	-0.139	0.000	0.26		6.8	OK
3.000	ROAD GULLY	32	114.020	-0.080	0.000	0.09		0.9	OK
4.000	ROAD GULLY	32	114.019	-0.081	0.000	0.08		0.8	OK
2.001	SWMH 04	32	113.235	-0.127	0.000	0.40		10.8	OK
1.002	SWMH 05	32	112.196	-0.177	0.000	0.35		23.7	OK
1.003	SWMH 06	35	110.904	-1.396	0.000	0.00		0.0	OK

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Summary Wizard of 180 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Status
1.000	SWMH 01	35	112.457	-0.093	0.000	0.31	3.9	OK
1.001	SWMH 02	35	112.293	-0.128	0.000	0.38	10.5	OK
2.000	SWMH 03	35	113.256	-0.149	0.000	0.21	5.6	OK
3.000	ROAD GULLY	35	114.017	-0.083	0.000	0.07	0.7	OK
4.000	ROAD GULLY	35	114.017	-0.083	0.000	0.07	0.7	OK
2.001	SWMH 04	35	113.224	-0.137	0.000	0.32	8.9	OK
1.002	SWMH 05	35	112.182	-0.191	0.000	0.28	19.2	OK
1.003	SWMH 06	33	110.907	-1.393	0.000	0.00	0.0	OK

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Summary Wizard of 240 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH 01	38	112.451	-0.099	0.000	0.26		3.3	OK
1.001	SWMH 02	38	112.284	-0.137	0.000	0.32		8.8	OK
2.000	SWMH 03	38	113.249	-0.156	0.000	0.18		4.6	OK
3.000	ROAD GULLY	38	114.015	-0.085	0.000	0.06		0.6	OK
4.000	ROAD GULLY	38	114.015	-0.085	0.000	0.05		0.6	OK
2.001	SWMH 04	38	113.216	-0.146	0.000	0.27		7.4	OK
1.002	SWMH 05	38	112.172	-0.201	0.000	0.24		16.2	OK
1.003	SWMH 06	36	110.902	-1.398	0.000	0.00		0.0	OK

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Summary Wizard of 360 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH 01	40	112.445	-0.105	0.000	0.20		2.5	OK
1.001	SWMH 02	40	112.272	-0.149	0.000	0.25		6.8	OK
2.000	SWMH 03	40	113.239	-0.166	0.000	0.14		3.5	OK
3.000	ROAD GULLY	40	114.013	-0.087	0.000	0.04		0.5	OK
4.000	ROAD GULLY	40	114.013	-0.087	0.000	0.04		0.4	OK
2.001	SWMH 04	40	113.205	-0.156	0.000	0.21		5.7	OK
1.002	SWMH 05	40	112.159	-0.214	0.000	0.18		12.4	OK
1.003	SWMH 06	37	110.887	-1.413	0.000	0.00		0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded		Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)				Flow (l/s)	
1.000	SWMH 01	6	112.895	0.345	0.000	1.42	17.9	SURCHARGED	
1.001	SWMH 02	6	112.619	0.198	0.000	1.85	50.5	SURCHARGED	
2.000	SWMH 03	6	113.556	0.151	0.000	1.14	29.5	SURCHARGED	
3.000	ROAD GULLY	5	114.046	-0.054	0.000	0.41	4.3	OK	
4.000	ROAD GULLY	5	114.044	-0.056	0.000	0.38	3.9	OK	
2.001	SWMH 04	6	113.498	0.137	0.000	1.70	46.5	SURCHARGED	
1.002	SWMH 05	6	112.442	0.069	0.000	1.45	98.0	SURCHARGED	
1.003	SWMH 06	28	110.971	-1.329	0.000	0.00	0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)			Volume (m³)	
1.000	SWMH 01	9	112.782	0.232	0.000	1.32	16.7	SURCHARGED
1.001	SWMH 02	9	112.558	0.136	0.000	1.70	46.6	SURCHARGED
2.000	SWMH 03	9	113.502	0.097	0.000	1.00	26.0	SURCHARGED
3.000	ROAD GULLY	8	114.041	-0.059	0.000	0.35	3.7	OK
4.000	ROAD GULLY	8	114.039	-0.061	0.000	0.33	3.4	OK
2.001	SWMH 04	9	113.454	0.093	0.000	1.55	42.3	SURCHARGED
1.002	SWMH 05	9	112.411	0.038	0.000	1.31	88.3	SURCHARGED
1.003	SWMH 06	26	111.071	-1.229	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
1.000	SWMH 01	12	112.607	0.057	0.000	1.04	13.2	SURCHARGED	
1.001	SWMH 02	12	112.454	0.033	0.000	1.31	35.8	SURCHARGED	
2.000	SWMH 03	12	113.409	0.004	0.000	0.72	18.7	SURCHARGED	
3.000	ROAD GULLY	12	114.034	-0.066	0.000	0.25	2.6	OK	
4.000	ROAD GULLY	12	114.033	-0.067	0.000	0.23	2.4	OK	
2.001	SWMH 04	12	113.375	0.014	0.000	1.08	29.6	SURCHARGED	
1.002	SWMH 05	12	112.317	-0.055	0.000	0.98	66.3	OK	
1.003	SWMH 06	24	111.164	-1.136	0.000	0.00	0.0	OK	

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Summary Wizard of 120 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	21	112.494	-0.056	0.000	0.72		9.1	OK
1.001	SWMH 02	20	112.363	-0.059	0.000	0.90		24.6	OK
2.000	SWMH 03	21	113.309	-0.096	0.000	0.49		12.8	OK
3.000	ROAD GULLY	21	114.027	-0.073	0.000	0.16		1.7	OK
4.000	ROAD GULLY	21	114.026	-0.074	0.000	0.15		1.6	OK
2.001	SWMH 04	21	113.283	-0.079	0.000	0.75		20.6	OK
1.002	SWMH 05	21	112.252	-0.120	0.000	0.67		45.2	OK
1.003	SWMH 06	21	111.225	-1.075	0.000	0.00		0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

 Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
1.000	SWMH 01	26	112.482	-0.068	0.000	0.58	7.4	OK
1.001	SWMH 02	25	112.340	-0.082	0.000	0.73	19.9	OK
2.000	SWMH 03	25	113.292	-0.113	0.000	0.40	10.4	OK
3.000	ROAD GULLY	26	114.024	-0.076	0.000	0.13	1.4	OK
4.000	ROAD GULLY	26	114.023	-0.077	0.000	0.12	1.3	OK
2.001	SWMH 04	25	113.263	-0.098	0.000	0.61	16.7	OK
1.002	SWMH 05	25	112.230	-0.143	0.000	0.54	36.4	OK
1.003	SWMH 06	19	111.237	-1.063	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)
								Status
1.000	SWMH 01	28	112.473	-0.077	0.000	0.48	6.0	OK
1.001	SWMH 02	28	112.322	-0.100	0.000	0.60	16.3	OK
2.000	SWMH 03	28	113.278	-0.127	0.000	0.33	8.5	OK
3.000	ROAD GULLY	28	114.022	-0.078	0.000	0.11	1.1	OK
4.000	ROAD GULLY	28	114.021	-0.079	0.000	0.10	1.0	OK
2.001	SWMH 04	28	113.249	-0.113	0.000	0.50	13.7	OK
1.002	SWMH 05	28	112.212	-0.160	0.000	0.44	30.0	OK
1.003	SWMH 06	20	111.234	-1.066	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)
								Status
1.000	SWMH 01	33	112.462	-0.088	0.000	0.36	4.5	OK
1.001	SWMH 02	33	112.302	-0.120	0.000	0.45	12.2	OK
2.000	SWMH 03	33	113.262	-0.143	0.000	0.25	6.4	OK
3.000	ROAD GULLY	33	114.019	-0.081	0.000	0.08	0.8	OK
4.000	ROAD GULLY	33	114.018	-0.082	0.000	0.07	0.8	OK
2.001	SWMH 04	33	113.231	-0.130	0.000	0.37	10.2	OK
1.002	SWMH 05	33	112.192	-0.181	0.000	0.33	22.5	OK
1.003	SWMH 06	22	111.219	-1.081	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		(l/s)	Flow (l/s)	
1.000	SWMH 01	2	113.600	1.050	0.153	2.04	25.9	FLOOD	
1.001	SWMH 02	2	113.070	0.648	0.000	2.84	77.7	SURCHARGED	
2.000	SWMH 03	1	113.992	0.587	0.000	1.82	47.1	SURCHARGED	
3.000	ROAD GULLY	1	114.091	-0.009	0.000	0.67	7.0	OK	
4.000	ROAD GULLY	1	114.070	-0.030	0.000	0.63	6.5	OK	
2.001	SWMH 04	1	113.840	0.479	0.000	2.75	75.2	SURCHARGED	
1.002	SWMH 05	2	112.660	0.287	0.000	2.27	153.1	SURCHARGED	
1.003	SWMH 06	23	111.203	-1.097	0.000	0.00	0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								Status
1.000	SWMH 01	3	113.510	0.960	0.000	2.01	25.4	FLOOD RISK
1.001	SWMH 02	3	112.985	0.563	0.000	2.68	73.3	SURCHARGED
2.000	SWMH 03	3	113.872	0.467	0.000	1.63	42.2	SURCHARGED
3.000	ROAD GULLY	3	114.056	-0.044	0.000	0.60	6.3	OK
4.000	ROAD GULLY	3	114.053	-0.047	0.000	0.56	5.8	OK
2.001	SWMH 04	3	113.744	0.383	0.000	2.53	69.0	SURCHARGED
1.002	SWMH 05	3	112.615	0.242	0.000	2.10	141.9	SURCHARGED
1.003	SWMH 06	12	111.394	-0.906	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe		
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH 01	5	113.095	0.545	0.000	1.68		21.2	SURCHARGED
1.001	SWMH 02	5	112.730	0.308	0.000	2.16		59.0	SURCHARGED
2.000	SWMH 03	5	113.633	0.228	0.000	1.24		32.2	SURCHARGED
3.000	ROAD GULLY	6	114.046	-0.054	0.000	0.42		4.4	OK
4.000	ROAD GULLY	6	114.044	-0.056	0.000	0.40		4.1	OK
2.001	SWMH 04	5	113.559	0.198	0.000	1.89		51.7	SURCHARGED
1.002	SWMH 05	5	112.490	0.117	0.000	1.65		111.4	SURCHARGED
1.003	SWMH 06	10	111.588	-0.712	0.000	0.00		0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)
								Status
1.000	SWMH 01	11	112.686	0.136	0.000	1.21	15.3	SURCHARGED
1.001	SWMH 02	11	112.494	0.073	0.000	1.52	41.6	SURCHARGED
2.000	SWMH 03	11	113.435	0.030	0.000	0.84	21.9	SURCHARGED
3.000	ROAD GULLY	11	114.036	-0.064	0.000	0.28	2.9	OK
4.000	ROAD GULLY	11	114.034	-0.066	0.000	0.26	2.7	OK
2.001	SWMH 04	11	113.398	0.037	0.000	1.29	35.1	SURCHARGED
1.002	SWMH 05	11	112.380	0.007	0.000	1.13	76.7	SURCHARGED
1.003	SWMH 06	8	111.751	-0.549	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
1.000	SWMH 01	13	112.563	0.013	0.000	0.98	12.4	SURCHARGED	
1.001	SWMH 02	13	112.437	0.015	0.000	1.23	33.7	SURCHARGED	
2.000	SWMH 03	13	113.389	-0.016	0.000	0.66	17.2	OK	
3.000	ROAD GULLY	14	114.032	-0.068	0.000	0.22	2.3	OK	
4.000	ROAD GULLY	14	114.031	-0.069	0.000	0.21	2.2	OK	
2.001	SWMH 04	13	113.360	-0.001	0.000	1.00	27.3	OK	
1.002	SWMH 05	13	112.296	-0.077	0.000	0.90	60.8	OK	
1.003	SWMH 06	6	111.805	-0.495	0.000	0.00	0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap. (l/s)	Overflow (l/s)	Status
1.000	SWMH 01	19	112.502	-0.048	0.000	0.81	10.2	OK
1.001	SWMH 02	16	112.404	-0.018	0.000	1.00	27.3	OK
2.000	SWMH 03	18	113.322	-0.083	0.000	0.56	14.4	OK
3.000	ROAD GULLY	19	114.029	-0.071	0.000	0.18	1.9	OK
4.000	ROAD GULLY	19	114.027	-0.073	0.000	0.17	1.7	OK
2.001	SWMH 04	18	113.296	-0.066	0.000	0.85	23.2	OK
1.002	SWMH 05	18	112.267	-0.106	0.000	0.75	50.5	OK
1.003	SWMH 06	5	111.811	-0.489	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	24	112.484	-0.066	0.000	0.60		7.6	OK
1.001	SWMH 02	24	112.343	-0.079	0.000	0.75		20.6	OK
2.000	SWMH 03	24	113.294	-0.111	0.000	0.41		10.7	OK
3.000	ROAD GULLY	24	114.024	-0.076	0.000	0.14		1.4	OK
4.000	ROAD GULLY	24	114.023	-0.077	0.000	0.13		1.3	OK
2.001	SWMH 04	24	113.266	-0.095	0.000	0.63		17.2	OK
1.002	SWMH 05	24	112.233	-0.139	0.000	0.56		37.9	OK
1.003	SWMH 06	7	111.798	-0.502	0.000	0.00		0.0	OK

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Summary Wizard of 15 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH 01	17	112.516	-0.034	0.000	0.91		11.5	OK
1.001	SWMH 02	17	112.373	-0.049	0.000	0.95		26.0	OK
2.000	SWMH 03	17	113.330	-0.075	0.000	0.61		15.9	OK
3.000	ROAD GULLY	16	114.031	-0.069	0.000	0.21		2.1	OK
4.000	ROAD GULLY	16	114.030	-0.070	0.000	0.19		2.0	OK
2.001	SWMH 04	17	113.301	-0.060	0.000	0.89		24.2	OK
1.002	SWMH 05	17	112.269	-0.104	0.000	0.75		50.6	OK
1.003	SWMH 06	41	110.830	-1.470	0.000	0.00		0.0	OK

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Summary Wizard of 30 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								(l/s)
								Status
1.000	SWMH 01	22	112.492	-0.058	0.000	0.69	8.7	OK
1.001	SWMH 02	22	112.349	-0.073	0.000	0.79	21.6	OK
2.000	SWMH 03	22	113.304	-0.101	0.000	0.47	12.2	OK
3.000	ROAD GULLY	22	114.026	-0.074	0.000	0.16	1.6	OK
4.000	ROAD GULLY	22	114.025	-0.075	0.000	0.15	1.5	OK
2.001	SWMH 04	22	113.275	-0.086	0.000	0.70	19.1	OK
1.002	SWMH 05	22	112.241	-0.132	0.000	0.60	40.5	OK
1.003	SWMH 06	39	110.882	-1.418	0.000	0.00	0.0	OK

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

 Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	29	112.472	-0.078	0.000	0.46		5.8	OK
1.001	SWMH 02	29	112.318	-0.104	0.000	0.56		15.4	OK
2.000	SWMH 03	29	113.276	-0.129	0.000	0.32		8.2	OK
3.000	ROAD GULLY	29	114.021	-0.079	0.000	0.10		1.1	OK
4.000	ROAD GULLY	29	114.021	-0.079	0.000	0.10		1.0	OK
2.001	SWMH 04	29	113.246	-0.115	0.000	0.48		13.0	OK
1.002	SWMH 05	29	112.209	-0.164	0.000	0.42		28.5	OK
1.003	SWMH 06	32	110.924	-1.376	0.000	0.00		0.0	OK

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Summary Wizard of 120 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	36	112.456	-0.094	0.000	0.30		3.8	OK
1.001	SWMH 02	36	112.292	-0.130	0.000	0.37		10.2	OK
2.000	SWMH 03	36	113.254	-0.151	0.000	0.21		5.3	OK
3.000	ROAD GULLY	36	114.017	-0.083	0.000	0.07		0.7	OK
4.000	ROAD GULLY	36	114.016	-0.084	0.000	0.06		0.6	OK
2.001	SWMH 04	36	113.222	-0.139	0.000	0.31		8.5	OK
1.002	SWMH 05	36	112.180	-0.193	0.000	0.28		18.7	OK
1.003	SWMH 06	29	110.942	-1.358	0.000	0.00		0.0	OK

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Summary Wizard of 180 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
1.000	SWMH 01	39	112.449	-0.101	0.000	0.23	2.9	OK
1.001	SWMH 02	39	112.279	-0.143	0.000	0.29	7.9	OK
2.000	SWMH 03	39	113.245	-0.160	0.000	0.16	4.2	OK
3.000	ROAD GULLY	39	114.015	-0.085	0.000	0.05	0.5	OK
4.000	ROAD GULLY	39	114.014	-0.086	0.000	0.05	0.5	OK
2.001	SWMH 04	39	113.211	-0.150	0.000	0.24	6.7	OK
1.002	SWMH 05	39	112.167	-0.206	0.000	0.22	14.6	OK
1.003	SWMH 06	30	110.941	-1.359	0.000	0.00	0.0	OK

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Summary Wizard of 240 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	41	112.444	-0.106	0.000	0.19		2.4	OK
1.001	SWMH 02	41	112.271	-0.150	0.000	0.24		6.6	OK
2.000	SWMH 03	41	113.238	-0.167	0.000	0.13		3.4	OK
3.000	ROAD GULLY	41	114.013	-0.087	0.000	0.04		0.5	OK
4.000	ROAD GULLY	41	114.013	-0.087	0.000	0.04		0.4	OK
2.001	SWMH 04	41	113.205	-0.157	0.000	0.20		5.5	OK
1.002	SWMH 05	41	112.158	-0.215	0.000	0.18		12.1	OK
1.003	SWMH 06	31	110.932	-1.368	0.000	0.00		0.0	OK

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Summary Wizard of 360 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	42	112.438	-0.112	0.000	0.15		1.9	OK
1.001	SWMH 02	42	112.261	-0.160	0.000	0.18		5.0	OK
2.000	SWMH 03	42	113.230	-0.175	0.000	0.10		2.6	OK
3.000	ROAD GULLY	42	114.012	-0.088	0.000	0.03		0.3	OK
4.000	ROAD GULLY	42	114.011	-0.089	0.000	0.03		0.3	OK
2.001	SWMH 04	42	113.195	-0.166	0.000	0.15		4.2	OK
1.002	SWMH 05	42	112.146	-0.227	0.000	0.14		9.3	OK
1.003	SWMH 06	34	110.904	-1.396	0.000	0.00		0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)
								Status
1.000	SWMH 01	7	112.889	0.339	0.000	1.43	18.1	SURCHARGED
1.001	SWMH 02	7	112.617	0.196	0.000	1.86	50.9	SURCHARGED
2.000	SWMH 03	7	113.546	0.141	0.000	1.12	28.9	SURCHARGED
3.000	ROAD GULLY	7	114.044	-0.056	0.000	0.39	4.1	OK
4.000	ROAD GULLY	7	114.042	-0.058	0.000	0.36	3.7	OK
2.001	SWMH 04	7	113.491	0.129	0.000	1.69	46.1	SURCHARGED
1.002	SWMH 05	7	112.440	0.067	0.000	1.44	97.7	SURCHARGED
1.003	SWMH 06	27	111.012	-1.288	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)
								Status
1.000	SWMH 01	10	112.691	0.141	0.000	1.21	15.3	SURCHARGED
1.001	SWMH 02	10	112.501	0.080	0.000	1.53	41.8	SURCHARGED
2.000	SWMH 03	10	113.449	0.044	0.000	0.88	22.7	SURCHARGED
3.000	ROAD GULLY	10	114.037	-0.063	0.000	0.30	3.1	OK
4.000	ROAD GULLY	10	114.036	-0.064	0.000	0.28	2.9	OK
2.001	SWMH 04	10	113.410	0.048	0.000	1.34	36.7	SURCHARGED
1.002	SWMH 05	10	112.384	0.011	0.000	1.16	78.2	SURCHARGED
1.003	SWMH 06	25	111.128	-1.172	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	16	112.521	-0.029	0.000	0.86		10.9	OK
1.001	SWMH 02	15	112.421	0.000	0.000	1.08		29.4	OK
2.000	SWMH 03	16	113.333	-0.072	0.000	0.60		15.7	OK
3.000	ROAD GULLY	17	114.030	-0.070	0.000	0.20		2.1	OK
4.000	ROAD GULLY	17	114.029	-0.071	0.000	0.18		1.9	OK
2.001	SWMH 04	15	113.307	-0.055	0.000	0.91		24.9	OK
1.002	SWMH 05	15	112.280	-0.093	0.000	0.81		54.6	OK
1.003	SWMH 06	18	111.238	-1.062	0.000	0.00		0.0	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								(l/s)
								Status
1.000	SWMH 01	27	112.481	-0.069	0.000	0.56	7.1	OK
1.001	SWMH 02	26	112.337	-0.085	0.000	0.71	19.3	OK
2.000	SWMH 03	27	113.289	-0.116	0.000	0.39	10.1	OK
3.000	ROAD GULLY	27	114.024	-0.076	0.000	0.13	1.3	OK
4.000	ROAD GULLY	27	114.023	-0.077	0.000	0.12	1.2	OK
2.001	SWMH 04	27	113.261	-0.100	0.000	0.59	16.2	OK
1.002	SWMH 05	26	112.227	-0.146	0.000	0.53	35.5	OK
1.003	SWMH 06	15	111.319	-0.981	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe		
PN	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe	
	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow	
								(l/s)	
								Status	
1.000	SWMH 01	31	112.469	-0.081	0.000	0.43		5.5	OK
1.001	SWMH 02	31	112.315	-0.107	0.000	0.54		14.9	OK
2.000	SWMH 03	31	113.273	-0.132	0.000	0.30		7.7	OK
3.000	ROAD GULLY	31	114.021	-0.079	0.000	0.10		1.0	OK
4.000	ROAD GULLY	31	114.020	-0.080	0.000	0.09		0.9	OK
2.001	SWMH 04	31	113.243	-0.119	0.000	0.46		12.4	OK
1.002	SWMH 05	31	112.205	-0.168	0.000	0.40		27.3	OK
1.003	SWMH 06	13	111.334	-0.966	0.000	0.00		0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe		
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow	
								(l/s)	
								Status	
1.000	SWMH 01	34	112.461	-0.089	0.000	0.35		4.5	OK
1.001	SWMH 02	34	112.301	-0.120	0.000	0.44		12.2	OK
2.000	SWMH 03	34	113.262	-0.143	0.000	0.24		6.3	OK
3.000	ROAD GULLY	34	114.019	-0.081	0.000	0.08		0.8	OK
4.000	ROAD GULLY	34	114.018	-0.082	0.000	0.07		0.8	OK
2.001	SWMH 04	34	113.231	-0.130	0.000	0.37		10.2	OK
1.002	SWMH 05	34	112.191	-0.182	0.000	0.33		22.3	OK
1.003	SWMH 06	14	111.329	-0.971	0.000	0.00		0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	Flow
								(l/s)
								Status
1.000	SWMH 01	37	112.452	-0.098	0.000	0.27	3.4	OK
1.001	SWMH 02	37	112.286	-0.136	0.000	0.33	9.1	OK
2.000	SWMH 03	37	113.250	-0.155	0.000	0.18	4.7	OK
3.000	ROAD GULLY	37	114.016	-0.084	0.000	0.06	0.6	OK
4.000	ROAD GULLY	37	114.015	-0.085	0.000	0.06	0.6	OK
2.001	SWMH 04	37	113.217	-0.144	0.000	0.28	7.6	OK
1.002	SWMH 05	37	112.174	-0.199	0.000	0.25	16.7	OK
1.003	SWMH 06	16	111.305	-0.995	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)			Flow (l/s)	
1.000	SWMH 01	1	113.600	1.050	0.226	2.10	26.6	FLOOD	
1.001	SWMH 02	1	113.083	0.661	0.000	2.89	78.9	FLOOD RISK	
2.000	SWMH 03	2	113.977	0.572	0.000	1.79	46.3	SURCHARGED	
3.000	ROAD GULLY	2	114.078	-0.022	0.000	0.64	6.7	OK	
4.000	ROAD GULLY	2	114.059	-0.041	0.000	0.61	6.3	OK	
2.001	SWMH 04	2	113.830	0.469	0.000	2.74	74.8	SURCHARGED	
1.002	SWMH 05	1	112.662	0.289	0.000	2.27	153.8	SURCHARGED	
1.003	SWMH 06	17	111.273	-1.027	0.000	0.00	0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe		
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	SWMH 01	4	113.340	0.790	0.000	1.91		24.2	FLOOD RISK
1.001	SWMH 02	4	112.864	0.443	0.000	2.50		68.2	SURCHARGED
2.000	SWMH 03	4	113.738	0.333	0.000	1.46		37.8	SURCHARGED
3.000	ROAD GULLY	4	114.050	-0.050	0.000	0.50		5.2	OK
4.000	ROAD GULLY	4	114.048	-0.052	0.000	0.47		4.8	OK
2.001	SWMH 04	4	113.642	0.280	0.000	2.24		61.1	SURCHARGED
1.002	SWMH 05	4	112.554	0.181	0.000	1.91		129.2	SURCHARGED
1.003	SWMH 06	11	111.491	-0.809	0.000	0.00		0.0	OK

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XP Solutions	Network 2017.1.2	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)
								Status
1.000	SWMH 01	8	112.856	0.306	0.000	1.44	18.2	SURCHARGED
1.001	SWMH 02	8	112.588	0.167	0.000	1.83	50.0	SURCHARGED
2.000	SWMH 03	8	113.506	0.101	0.000	1.02	26.5	SURCHARGED
3.000	ROAD GULLY	9	114.040	-0.060	0.000	0.34	3.5	OK
4.000	ROAD GULLY	9	114.038	-0.062	0.000	0.31	3.3	OK
2.001	SWMH 04	8	113.458	0.097	0.000	1.56	42.5	SURCHARGED
1.002	SWMH 05	8	112.423	0.050	0.000	1.37	92.6	SURCHARGED
1.003	SWMH 06	9	111.716	-0.584	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
1.000	SWMH 01	14	112.552	0.002	0.000	0.96	12.2	SURCHARGED	
1.001	SWMH 02	14	112.433	0.011	0.000	1.21	33.0	SURCHARGED	
2.000	SWMH 03	14	113.362	-0.043	0.000	0.66	17.1	OK	
3.000	ROAD GULLY	15	114.031	-0.069	0.000	0.22	2.3	OK	
4.000	ROAD GULLY	15	114.030	-0.070	0.000	0.20	2.1	OK	
2.001	SWMH 04	14	113.333	-0.028	0.000	1.00	27.3	OK	
1.002	SWMH 05	14	112.293	-0.079	0.000	0.89	60.3	OK	
1.003	SWMH 06	4	111.912	-0.388	0.000	0.00	0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	20	112.496	-0.054	0.000	0.74		9.3	OK
1.001	SWMH 02	19	112.367	-0.055	0.000	0.93		25.3	OK
2.000	SWMH 03	20	113.312	-0.093	0.000	0.51		13.2	OK
3.000	ROAD GULLY	20	114.027	-0.073	0.000	0.17		1.7	OK
4.000	ROAD GULLY	20	114.026	-0.074	0.000	0.15		1.6	OK
2.001	SWMH 04	20	113.286	-0.075	0.000	0.78		21.2	OK
1.002	SWMH 05	19	112.256	-0.117	0.000	0.69		46.5	OK
1.003	SWMH 06	2	111.989	-0.311	0.000	0.00		0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	23	112.484	-0.066	0.000	0.60		7.6	OK
1.001	SWMH 02	23	112.343	-0.078	0.000	0.75		20.6	OK
2.000	SWMH 03	23	113.294	-0.111	0.000	0.41		10.7	OK
3.000	ROAD GULLY	23	114.024	-0.076	0.000	0.14		1.4	OK
4.000	ROAD GULLY	23	114.023	-0.077	0.000	0.13		1.3	OK
2.001	SWMH 04	23	113.266	-0.095	0.000	0.63		17.3	OK
1.002	SWMH 05	23	112.233	-0.139	0.000	0.56		37.9	OK
1.003	SWMH 06	1	112.008	-0.292	0.000	0.00		0.1	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 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)	Pipe Flow (l/s)	Status
1.000	SWMH 01	30	112.470	-0.080	0.000	0.45		5.7	OK
1.001	SWMH 02	30	112.317	-0.104	0.000	0.56		15.3	OK
2.000	SWMH 03	30	113.275	-0.130	0.000	0.31		8.0	OK
3.000	ROAD GULLY	30	114.021	-0.079	0.000	0.10		1.0	OK
4.000	ROAD GULLY	30	114.020	-0.080	0.000	0.09		1.0	OK
2.001	SWMH 04	30	113.245	-0.117	0.000	0.47		12.8	OK
1.002	SWMH 05	30	112.207	-0.165	0.000	0.42		28.2	OK
1.003	SWMH 06	3	111.988	-0.312	0.000	0.00		0.0	OK

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XP Solutions	Source Control 2017.1.2	

Summary of Results for 100 year Return Period

Half Drain Time : 2342 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	112.238	0.238	0.8	59.8	O K
30 min Summer	112.327	0.327	0.8	82.0	O K
60 min Summer	112.428	0.428	0.8	107.3	O K
120 min Summer	112.538	0.538	0.8	134.9	O K
180 min Summer	112.602	0.602	0.9	151.1	O K
240 min Summer	112.645	0.645	0.9	161.8	O K
360 min Summer	112.704	0.704	0.9	176.5	O K
480 min Summer	112.744	0.744	0.9	186.5	O K
600 min Summer	112.772	0.772	0.9	193.7	O K
720 min Summer	112.793	0.793	0.9	199.0	O K
960 min Summer	112.820	0.820	0.9	205.7	O K
1440 min Summer	112.840	0.840	0.9	210.6	O K
2160 min Summer	112.830	0.830	0.9	208.1	O K
2880 min Summer	112.812	0.812	0.9	203.8	O K
4320 min Summer	112.773	0.773	0.9	193.9	O K
5760 min Summer	112.735	0.735	0.9	184.3	O K
7200 min Summer	112.699	0.699	0.9	175.2	O K
8640 min Summer	112.663	0.663	0.9	166.3	O K
10080 min Summer	112.628	0.628	0.9	157.6	O K
15 min Winter	112.267	0.267	0.8	67.0	O K
30 min Winter	112.367	0.367	0.8	92.0	O K
60 min Winter	112.481	0.481	0.8	120.5	O K
120 min Winter	112.605	0.605	0.9	151.7	O K
180 min Winter	112.679	0.679	0.9	170.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	79.944	0.0	22
30 min Summer	55.047	0.0	37
60 min Summer	36.294	0.0	66
120 min Summer	23.124	0.0	126
180 min Summer	17.485	0.0	184
240 min Summer	14.222	0.0	244
360 min Summer	10.584	0.0	364
480 min Summer	8.579	0.0	484
600 min Summer	7.282	0.0	602
720 min Summer	6.365	0.0	722
960 min Summer	5.141	0.0	962
1440 min Summer	3.796	0.0	1440
2160 min Summer	2.796	0.0	1920
2880 min Summer	2.246	0.0	2276
4320 min Summer	1.647	0.0	3068
5760 min Summer	1.320	0.0	3872
7200 min Summer	1.114	0.0	4688
8640 min Summer	0.969	0.0	5528
10080 min Summer	0.862	0.0	6352
15 min Winter	79.944	0.0	22
30 min Winter	55.047	0.0	37
60 min Winter	36.294	0.0	66
120 min Winter	23.124	0.0	124
180 min Winter	17.485	0.0	182

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XP Solutions	Source Control 2017.1.2	

Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	112.728	0.728	0.9	182.5	O K
360 min Winter	112.796	0.796	0.9	199.6	O K
480 min Winter	112.843	0.843	0.9	211.5	O K
600 min Winter	112.878	0.878	0.9	220.2	O K
720 min Winter	112.904	0.904	0.9	226.8	O K
960 min Winter	112.940	0.940	0.9	235.7	O K
1440 min Winter	112.973	0.973	0.9	243.9	O K
2160 min Winter	112.974	0.974	0.9	244.3	O K
2880 min Winter	112.950	0.950	0.9	238.2	O K
4320 min Winter	112.899	0.899	0.9	225.4	O K
5760 min Winter	112.843	0.843	0.9	211.5	O K
7200 min Winter	112.788	0.788	0.9	197.6	O K
8640 min Winter	112.732	0.732	0.9	183.6	O K
10080 min Winter	112.678	0.678	0.9	169.9	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
240 min Winter	14.222	0.0	242
360 min Winter	10.584	0.0	358
480 min Winter	8.579	0.0	476
600 min Winter	7.282	0.0	594
720 min Winter	6.365	0.0	710
960 min Winter	5.141	0.0	942
1440 min Winter	3.796	0.0	1398
2160 min Winter	2.796	0.0	2052
2880 min Winter	2.246	0.0	2624
4320 min Winter	1.647	0.0	3288
5760 min Winter	1.320	0.0	4208
7200 min Winter	1.114	0.0	5120
8640 min Winter	0.969	0.0	5976
10080 min Winter	0.862	0.0	6856

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.000	Shortest Storm (mins)	15
Ratio R	0.305	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.404

Time (mins)	Area	Time (mins)	Area
From: To: (ha)		From: To: (ha)	
0 4	0.319	4 8	0.085

Time Area Diagram

Total Area (ha) 0.000

Time (mins)	Area
From: To: (ha)	
0 4	0.000

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Model Details

Storage is Online Cover Level (m) 114.410

Cellular Storage Structure

Invert Level (m) 112.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.02023 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.02023

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	264.0	264.0	1.000	264.0	329.0	1.010	0.0	329.0

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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)	2	PIMP (%)	100
M5-60 (mm)	18.000	Add Flow / Climate Change (%)	0
Ratio R	0.305	Minimum Backdrop Height (m)	0.750
Maximum Rainfall (mm/hr)	250	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)	0.75
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	400

Designed with Level Soffits

Network Design Table for Storm

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
5.000	31.500	0.106	296.9	0.104	3.00	0.0	0.600	o	225	Pipe/Conduit	
6.000	22.000	0.106	207.4	0.098	3.00	0.0	0.600	o	225	Pipe/Conduit	
5.001	41.000	0.150	273.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
5.002	19.500	0.071	273.8	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
7.000	26.000	0.088	296.5	0.109	3.00	0.0	0.600	o	225	Pipe/Conduit	
7.001	13.000	0.054	242.2	0.093	0.00	0.0	0.600	o	225	Pipe/Conduit	
7.002	7.500	0.186	40.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
5.003	10.000	0.029	340.5	0.000	0.00	0.0	0.600	o	300	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)
5.000	61.25	3.70	112.650	0.104	0.0	0.0	0.0	0.75	30.0	17.3
6.000	62.90	3.41	112.650	0.098	0.0	0.0	0.0	0.90	36.0	16.7
5.001	56.89	4.57	112.544	0.202	0.0	0.0	0.0	0.79	31.3	31.1
5.002	55.07	4.98	112.394	0.202	0.0	0.0	0.0	0.79	31.2	31.1
7.000	61.93	3.57	112.650	0.109	0.0	0.0	0.0	0.75	30.0	18.3
7.001	60.51	3.83	112.562	0.202	0.0	0.0	0.0	0.84	33.2	33.1
7.002	60.19	3.89	112.509	0.202	0.0	0.0	0.0	2.07	82.1	33.1
5.003	54.26	5.18	112.248	0.404	0.0	0.0	0.0	0.85	59.8	59.4

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out PN	Invert Level (m)	Diameter (mm)	Pipes In PN	Invert Level (m)	Diameter (mm)	Backdrop (mm)
SWMH 07	113.850	1.200	Open Manhole	1200	5.000	112.650	225				
SWMH 08	113.850	1.200	Open Manhole	1200	6.000	112.650	225				
SWMH 09	113.850	1.306	Open Manhole	1200	5.001	112.544	225	5.000	112.544	225	
								6.000	112.544	225	
SWMH 10	113.850	1.456	Open Manhole	1200	5.002	112.394	225	5.001	112.394	225	
SWMH 11	113.850	1.200	Open Manhole	1200	7.000	112.650	225				
SWSMH 12	113.850	1.288	Open Manhole	1200	7.001	112.562	225	7.000	112.562	225	
SWMH 13	114.340	1.831	Open Manhole	1200	7.002	112.509	225	7.001	112.509	225	
SWMH 14	114.410	2.162	Open Manhole	1200	5.003	112.248	300	5.002	112.323	225	
								7.002	112.323	225	
SOAKAWAY	114.410	2.192	Open Manhole	0		OUTFALL		5.003	112.218	300	

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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)
5.000	o	225	SWMH 07	113.850	112.650	0.975	Open Manhole	1200
6.000	o	225	SWMH 08	113.850	112.650	0.975	Open Manhole	1200
5.001	o	225	SWMH 09	113.850	112.544	1.081	Open Manhole	1200
5.002	o	225	SWMH 10	113.850	112.394	1.231	Open Manhole	1200
7.000	o	225	SWMH 11	113.850	112.650	0.975	Open Manhole	1200
7.001	o	225	SWSMH 12	113.850	112.562	1.063	Open Manhole	1200
7.002	o	225	SWMH 13	114.340	112.509	1.606	Open Manhole	1200
5.003	o	300	SWMH 14	114.410	112.248	1.862	Open Manhole	1200

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)
5.000	31.500	296.9	SWMH 09	113.850	112.544	1.081	Open Manhole	1200
6.000	22.000	207.4	SWMH 09	113.850	112.544	1.081	Open Manhole	1200
5.001	41.000	273.3	SWMH 10	113.850	112.394	1.231	Open Manhole	1200
5.002	19.500	273.8	SWMH 14	114.410	112.323	1.862	Open Manhole	1200
7.000	26.000	296.5	SWSMH 12	113.850	112.562	1.063	Open Manhole	1200
7.001	13.000	242.2	SWMH 13	114.340	112.509	1.606	Open Manhole	1200
7.002	7.500	40.3	SWMH 14	114.410	112.323	1.862	Open Manhole	1200
5.003	10.000	340.5	SOAKAWAY	114.410	112.218	1.892	Open Manhole	0

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Storage Structures for Storm

Cellular Storage Manhole: SWMH 14, DS/PN: 5.003

Invert Level (m) 111.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.02023 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.02023

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	264.0	264.0	1.000	264.0	329.0	1.001	0.0	329.0

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Summary Wizard of 15 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status
			Level (m)	Depth (m)	Volume (m³)		Flow (l/s)	Flow (l/s)	
5.000	SWMH 07	16	112.787	-0.088	0.000	0.62	17.5	OK	
6.000	SWMH 08	16	112.774	-0.101	0.000	0.50	16.4	OK	
5.001	SWMH 09	16	112.742	-0.027	0.000	0.95	28.3	OK	
5.002	SWMH 10	18	112.573	-0.046	0.000	0.98	27.5	OK	
7.000	SWMH 11	17	112.792	-0.083	0.000	0.67	18.5	OK	
7.001	SWSMH 12	17	112.744	-0.044	0.000	0.98	28.2	OK	
7.002	SWMH 13	16	112.617	-0.116	0.000	0.47	28.5	OK	
5.003	SWMH 14	42	111.346	-1.202	0.000	0.00	0.0	OK	

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Summary Wizard of 30 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
5.000	SWMH 07	19	112.770	-0.105	0.000	0.53	14.9	OK		
6.000	SWMH 08	19	112.757	-0.118	0.000	0.44	14.4	OK		
5.001	SWMH 09	19	112.715	-0.054	0.000	0.90	26.8	OK		
5.002	SWMH 10	20	112.565	-0.054	0.000	0.93	26.2	OK		
7.000	SWMH 11	19	112.775	-0.100	0.000	0.57	15.8	OK		
7.001	SWSMH 12	21	112.728	-0.059	0.000	0.90	25.8	OK		
7.002	SWMH 13	21	112.611	-0.123	0.000	0.42	25.5	OK		
5.003	SWMH 14	40	111.378	-1.169	0.000	0.00	0.0	OK		

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Summary Wizard of 60 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s) Status
5.000	SWMH 07	25	112.748	-0.127	0.000	0.38	10.7	OK
6.000	SWMH 08	25	112.737	-0.138	0.000	0.31	10.2	OK
5.001	SWMH 09	26	112.683	-0.085	0.000	0.68	20.3	OK
5.002	SWMH 10	27	112.535	-0.084	0.000	0.70	19.7	OK
7.000	SWMH 11	26	112.751	-0.124	0.000	0.40	11.2	OK
7.001	SWSMH 12	27	112.701	-0.086	0.000	0.68	19.7	OK
7.002	SWMH 13	27	112.597	-0.136	0.000	0.33	19.8	OK
5.003	SWMH 14	38	111.416	-1.132	0.000	0.00	0.0	OK

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Summary Wizard of 120 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	32	112.727	-0.148	0.000	0.25	7.1	OK
6.000	SWMH 08	32	112.719	-0.156	0.000	0.20	6.7	OK
5.001	SWMH 09	32	112.652	-0.117	0.000	0.46	13.8	OK
5.002	SWMH 10	32	112.505	-0.114	0.000	0.48	13.7	OK
7.000	SWMH 11	32	112.729	-0.146	0.000	0.27	7.5	OK
7.001	SWSMH 12	32	112.672	-0.115	0.000	0.48	13.7	OK
7.002	SWMH 13	32	112.581	-0.153	0.000	0.23	13.7	OK
5.003	SWMH 14	34	111.457	-1.091	0.000	0.00	0.0	OK

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Summary Wizard of 180 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
5.000	SWMH 07	35	112.719	-0.156	0.000	0.21	5.9	OK		
6.000	SWMH 08	35	112.712	-0.163	0.000	0.17	5.5	OK		
5.001	SWMH 09	35	112.640	-0.129	0.000	0.38	11.3	OK		
5.002	SWMH 10	35	112.493	-0.126	0.000	0.40	11.3	OK		
7.000	SWMH 11	35	112.721	-0.154	0.000	0.22	6.1	OK		
7.001	SWSMH 12	35	112.660	-0.128	0.000	0.39	11.2	OK		
7.002	SWMH 13	35	112.574	-0.160	0.000	0.18	11.1	OK		
5.003	SWMH 14	33	111.482	-1.066	0.000	0.00	0.0	OK		

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Summary Wizard of 240 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	38	112.712	-0.163	0.000	0.17	4.9	OK
6.000	SWMH 08	38	112.706	-0.169	0.000	0.14	4.6	OK
5.001	SWMH 09	38	112.631	-0.138	0.000	0.32	9.4	OK
5.002	SWMH 10	38	112.483	-0.136	0.000	0.33	9.4	OK
7.000	SWMH 11	38	112.715	-0.160	0.000	0.18	5.1	OK
7.001	SWSMH 12	38	112.651	-0.137	0.000	0.33	9.4	OK
7.002	SWMH 13	38	112.567	-0.166	0.000	0.15	9.4	OK
5.003	SWMH 14	30	111.500	-1.048	0.000	0.00	0.0	OK

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Summary Wizard of 360 minute 2 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	40	112.704	-0.171	0.000	0.13	3.7	OK
6.000	SWMH 08	40	112.699	-0.176	0.000	0.11	3.5	OK
5.001	SWMH 09	40	112.619	-0.150	0.000	0.24	7.2	OK
5.002	SWMH 10	40	112.471	-0.148	0.000	0.26	7.2	OK
7.000	SWMH 11	40	112.706	-0.169	0.000	0.14	3.9	OK
7.001	SWSMH 12	40	112.638	-0.149	0.000	0.25	7.2	OK
7.002	SWMH 13	40	112.560	-0.174	0.000	0.12	7.2	OK
5.003	SWMH 14	28	111.523	-1.025	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
5.000	SWMH 07	8	113.149	0.274	0.000	0.91	25.5	SURCHARGED
6.000	SWMH 08	8	113.116	0.241	0.000	0.75	24.7	SURCHARGED
5.001	SWMH 09	8	113.057	0.288	0.000	1.53	45.5	SURCHARGED
5.002	SWMH 10	8	112.701	0.082	0.000	1.53	43.3	SURCHARGED
7.000	SWMH 11	6	113.063	0.188	0.000	1.12	31.1	SURCHARGED
7.001	SWSMH 12	6	112.948	0.160	0.000	1.96	56.4	SURCHARGED
7.002	SWMH 13	6	112.683	-0.050	0.000	0.95	57.5	OK
5.003	SWMH 14	37	111.433	-1.115	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	10	113.072	0.197	0.000	0.83	23.3	SURCHARGED
6.000	SWMH 08	10	113.049	0.174	0.000	0.67	21.9	SURCHARGED
5.001	SWMH 09	10	113.002	0.233	0.000	1.44	42.9	SURCHARGED
5.002	SWMH 10	10	112.692	0.073	0.000	1.47	41.6	SURCHARGED
7.000	SWMH 11	9	112.999	0.124	0.000	1.01	27.9	SURCHARGED
7.001	SWSMH 12	9	112.901	0.114	0.000	1.81	52.0	SURCHARGED
7.002	SWMH 13	9	112.669	-0.065	0.000	0.85	51.7	OK
5.003	SWMH 14	31	111.499	-1.049	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	13	112.878	0.003	0.000	0.67	18.8	SURCHARGED
6.000	SWMH 08	13	112.868	-0.007	0.000	0.54	17.8	OK
5.001	SWMH 09	13	112.833	0.064	0.000	1.15	34.0	SURCHARGED
5.002	SWMH 10	12	112.639	0.020	0.000	1.20	33.8	SURCHARGED
7.000	SWMH 11	12	112.881	0.006	0.000	0.73	20.4	SURCHARGED
7.001	SWSMH 12	12	112.827	0.040	0.000	1.32	37.9	SURCHARGED
7.002	SWMH 13	12	112.642	-0.092	0.000	0.63	38.5	OK
5.003	SWMH 14	23	111.572	-0.975	0.000	0.00	0.0	OK

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Summary Wizard of 120 minute 30 year Summer I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s) Status
5.000	SWMH 07	21	112.760	-0.115	0.000	0.48	13.5	OK
6.000	SWMH 08	21	112.750	-0.125	0.000	0.39	12.7	OK
5.001	SWMH 09	21	112.708	-0.061	0.000	0.87	25.9	OK
5.002	SWMH 10	21	112.564	-0.055	0.000	0.91	25.6	OK
7.000	SWMH 11	21	112.770	-0.105	0.000	0.51	14.1	OK
7.001	SWSMH 12	20	112.730	-0.057	0.000	0.91	26.1	OK
7.002	SWMH 13	20	112.611	-0.122	0.000	0.43	26.1	OK
5.003	SWMH 14	20	111.653	-0.895	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s) Status
5.000	SWMH 07	26	112.747	-0.128	0.000	0.39	10.9	OK
6.000	SWMH 08	26	112.736	-0.139	0.000	0.31	10.3	OK
5.001	SWMH 09	25	112.685	-0.084	0.000	0.71	21.0	OK
5.002	SWMH 10	25	112.540	-0.079	0.000	0.74	20.9	OK
7.000	SWMH 11	25	112.752	-0.123	0.000	0.41	11.4	OK
7.001	SWSMH 12	25	112.707	-0.081	0.000	0.73	21.1	OK
7.002	SWMH 13	25	112.600	-0.133	0.000	0.35	21.0	OK
5.003	SWMH 14	18	111.702	-0.846	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)		
5.000	SWMH 07	28	112.737	-0.138	0.000	0.32		8.9	OK	
6.000	SWMH 08	28	112.727	-0.148	0.000	0.26		8.4	OK	
5.001	SWMH 09	28	112.667	-0.101	0.000	0.58		17.3	OK	
5.002	SWMH 10	28	112.522	-0.097	0.000	0.61		17.2	OK	
7.000	SWMH 11	28	112.740	-0.135	0.000	0.34		9.4	OK	
7.001	SWSMH 12	28	112.689	-0.099	0.000	0.60		17.4	OK	
7.002	SWMH 13	28	112.590	-0.143	0.000	0.29		17.4	OK	
5.003	SWMH 14	15	111.735	-0.813	0.000	0.00		0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	33	112.724	-0.151	0.000	0.24	6.7	OK
6.000	SWMH 08	33	112.717	-0.158	0.000	0.19	6.3	OK
5.001	SWMH 09	33	112.648	-0.121	0.000	0.44	13.0	OK
5.002	SWMH 10	33	112.501	-0.118	0.000	0.46	13.0	OK
7.000	SWMH 11	33	112.726	-0.149	0.000	0.25	7.0	OK
7.001	SWSMH 12	33	112.668	-0.119	0.000	0.45	13.0	OK
7.002	SWMH 13	33	112.579	-0.155	0.000	0.21	13.0	OK
5.003	SWMH 14	13	111.779	-0.769	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
5.000	SWMH 07	2	113.850	0.975	0.262	1.33	37.2	FLOOD
6.000	SWMH 08	2	113.838	0.963	0.000	1.09	35.8	FLOOD RISK
5.001	SWMH 09	2	113.703	0.934	0.000	2.23	66.2	FLOOD RISK
5.002	SWMH 10	2	112.934	0.315	0.000	2.36	66.5	SURCHARGED
7.000	SWMH 11	2	113.676	0.801	0.000	1.67	46.3	FLOOD RISK
7.001	SWSMH 12	2	113.421	0.634	0.000	3.01	86.5	SURCHARGED
7.002	SWMH 13	2	112.914	0.181	0.000	1.43	86.6	SURCHARGED
5.003	SWMH 14	25	111.558	-0.989	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
5.000	SWMH 07	3	113.836	0.961	0.000	1.26	35.3	FLOOD RISK
6.000	SWMH 08	3	113.775	0.900	0.000	1.02	33.3	FLOOD RISK
5.001	SWMH 09	3	113.659	0.890	0.000	2.20	65.3	FLOOD RISK
5.002	SWMH 10	3	112.922	0.303	0.000	2.32	65.5	SURCHARGED
7.000	SWMH 11	3	113.517	0.642	0.000	1.56	43.1	SURCHARGED
7.001	SWSMH 12	3	113.312	0.525	0.000	2.81	80.7	SURCHARGED
7.002	SWMH 13	3	112.874	0.140	0.000	1.33	80.9	SURCHARGED
5.003	SWMH 14	19	111.674	-0.874	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
5.000	SWMH 07	5	113.472	0.597	0.000	1.04	29.3	SURCHARGED
6.000	SWMH 08	5	113.432	0.557	0.000	0.84	27.5	SURCHARGED
5.001	SWMH 09	5	113.357	0.588	0.000	1.86	55.1	SURCHARGED
5.002	SWMH 10	5	112.816	0.198	0.000	1.98	55.7	SURCHARGED
7.000	SWMH 11	5	113.183	0.308	0.000	1.24	34.3	SURCHARGED
7.001	SWSMH 12	5	113.039	0.252	0.000	2.23	64.1	SURCHARGED
7.002	SWMH 13	5	112.752	0.019	0.000	1.06	64.6	SURCHARGED
5.003	SWMH 14	11	111.806	-0.742	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Flow	
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s)
								Status
5.000	SWMH 07	9	113.074	0.199	0.000	0.77	21.6	SURCHARGED
6.000	SWMH 08	9	113.053	0.178	0.000	0.62	20.5	SURCHARGED
5.001	SWMH 09	9	113.007	0.238	0.000	1.37	40.8	SURCHARGED
5.002	SWMH 10	9	112.693	0.074	0.000	1.46	41.1	SURCHARGED
7.000	SWMH 11	11	112.919	0.044	0.000	0.87	24.1	SURCHARGED
7.001	SWSMH 12	11	112.852	0.065	0.000	1.55	44.6	SURCHARGED
7.002	SWMH 13	11	112.653	-0.081	0.000	0.73	44.6	OK
5.003	SWMH 14	8	111.951	-0.597	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
5.000	SWMH 07	14	112.878	0.003	0.000	0.63	17.8	SURCHARGED
6.000	SWMH 08	14	112.868	-0.007	0.000	0.51	16.8	OK
5.001	SWMH 09	14	112.831	0.062	0.000	1.13	33.5	SURCHARGED
5.002	SWMH 10	14	112.635	0.016	0.000	1.19	33.5	SURCHARGED
7.000	SWMH 11	13	112.853	-0.022	0.000	0.70	19.4	OK
7.001	SWSMH 12	13	112.807	0.020	0.000	1.25	35.9	SURCHARGED
7.002	SWMH 13	13	112.634	-0.100	0.000	0.59	35.7	OK
5.003	SWMH 14	7	112.037	-0.510	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
5.000	SWMH 07	18	112.774	-0.101	0.000	0.54	15.1	OK		
6.000	SWMH 08	18	112.765	-0.110	0.000	0.43	14.2	OK		
5.001	SWMH 09	18	112.733	-0.036	0.000	0.97	28.8	OK		
5.002	SWMH 10	16	112.594	-0.025	0.000	1.00	28.2	OK		
7.000	SWMH 11	16	112.803	-0.072	0.000	0.56	15.7	OK		
7.001	SWSMH 12	16	112.766	-0.021	0.000	1.00	28.7	OK		
7.002	SWMH 13	17	112.617	-0.116	0.000	0.47	28.7	OK		
5.003	SWMH 14	5	112.095	-0.453	0.000	0.00	0.0	OK		

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe			Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
5.000	SWMH 07	24	112.749	-0.126	0.000	0.40	11.3	OK	
6.000	SWMH 08	24	112.738	-0.137	0.000	0.32	10.6	OK	
5.001	SWMH 09	24	112.688	-0.081	0.000	0.74	21.9	OK	
5.002	SWMH 10	24	112.543	-0.075	0.000	0.78	21.9	OK	
7.000	SWMH 11	24	112.755	-0.120	0.000	0.43	11.8	OK	
7.001	SWSMH 12	24	112.710	-0.077	0.000	0.76	21.9	OK	
7.002	SWMH 13	24	112.602	-0.132	0.000	0.36	21.9	OK	
5.003	SWMH 14	3	112.176	-0.371	0.000	0.00	0.0	OK	

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Summary Wizard of 15 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s) Status
5.000	SWMH 07	17	112.781	-0.094	0.000	0.60	16.8	OK
6.000	SWMH 08	17	112.769	-0.106	0.000	0.48	15.7	OK
5.001	SWMH 09	17	112.736	-0.033	0.000	0.97	28.9	OK
5.002	SWMH 10	17	112.578	-0.041	0.000	1.00	28.2	OK
7.000	SWMH 11	18	112.786	-0.089	0.000	0.64	17.7	OK
7.001	SWSMH 12	18	112.743	-0.044	0.000	0.99	28.4	OK
7.002	SWMH 13	18	112.617	-0.116	0.000	0.47	28.6	OK
5.003	SWMH 14	41	111.358	-1.190	0.000	0.00	0.0	OK

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Summary Wizard of 30 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	22	112.757	-0.118	0.000	0.45	12.8	OK
6.000	SWMH 08	22	112.745	-0.130	0.000	0.37	12.2	OK
5.001	SWMH 09	22	112.699	-0.069	0.000	0.81	24.0	OK
5.002	SWMH 10	22	112.552	-0.067	0.000	0.84	23.7	OK
7.000	SWMH 11	22	112.762	-0.113	0.000	0.48	13.4	OK
7.001	SWSMH 12	22	112.717	-0.070	0.000	0.81	23.2	OK
7.002	SWMH 13	22	112.605	-0.128	0.000	0.38	23.3	OK
5.003	SWMH 14	39	111.395	-1.153	0.000	0.00	0.0	OK

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Summary Wizard of 60 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	29	112.736	-0.139	0.000	0.31	8.6	OK
6.000	SWMH 08	29	112.726	-0.149	0.000	0.25	8.2	OK
5.001	SWMH 09	29	112.665	-0.104	0.000	0.56	16.6	OK
5.002	SWMH 10	29	112.518	-0.101	0.000	0.58	16.5	OK
7.000	SWMH 11	29	112.739	-0.136	0.000	0.33	9.0	OK
7.001	SWSMH 12	29	112.685	-0.103	0.000	0.57	16.5	OK
7.002	SWMH 13	29	112.588	-0.146	0.000	0.27	16.5	OK
5.003	SWMH 14	36	111.436	-1.111	0.000	0.00	0.0	OK

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Summary Wizard of 120 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	36	112.718	-0.157	0.000	0.20	5.6	OK
6.000	SWMH 08	36	112.710	-0.165	0.000	0.16	5.3	OK
5.001	SWMH 09	36	112.638	-0.131	0.000	0.37	10.9	OK
5.002	SWMH 10	36	112.490	-0.128	0.000	0.38	10.9	OK
7.000	SWMH 11	36	112.720	-0.155	0.000	0.21	5.9	OK
7.001	SWSMH 12	36	112.658	-0.129	0.000	0.38	10.9	OK
7.002	SWMH 13	36	112.572	-0.161	0.000	0.18	10.8	OK
5.003	SWMH 14	32	111.483	-1.065	0.000	0.00	0.0	OK

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Summary Wizard of 180 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
5.000	SWMH 07	39	112.709	-0.166	0.000	0.16	4.4	OK		
6.000	SWMH 08	39	112.703	-0.172	0.000	0.13	4.1	OK		
5.001	SWMH 09	39	112.625	-0.143	0.000	0.28	8.5	OK		
5.002	SWMH 10	39	112.478	-0.141	0.000	0.30	8.4	OK		
7.000	SWMH 11	39	112.711	-0.164	0.000	0.16	4.6	OK		
7.001	SWSMH 12	39	112.645	-0.142	0.000	0.29	8.4	OK		
7.002	SWMH 13	39	112.564	-0.170	0.000	0.14	8.4	OK		
5.003	SWMH 14	29	111.512	-1.035	0.000	0.00	0.0	OK		

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Summary Wizard of 240 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	41	112.703	-0.172	0.000	0.13	3.6	OK
6.000	SWMH 08	41	112.698	-0.177	0.000	0.10	3.4	OK
5.001	SWMH 09	41	112.618	-0.151	0.000	0.24	7.0	OK
5.002	SWMH 10	41	112.470	-0.149	0.000	0.25	7.0	OK
7.000	SWMH 11	41	112.705	-0.170	0.000	0.14	3.8	OK
7.001	SWSMH 12	41	112.637	-0.150	0.000	0.24	7.0	OK
7.002	SWMH 13	41	112.559	-0.174	0.000	0.12	7.0	OK
5.003	SWMH 14	26	111.533	-1.014	0.000	0.00	0.0	OK

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Summary Wizard of 360 minute 2 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)		
5.000	SWMH 07	42	112.697	-0.178	0.000	0.10		2.8	OK	
6.000	SWMH 08	42	112.692	-0.183	0.000	0.08		2.6	OK	
5.001	SWMH 09	42	112.608	-0.161	0.000	0.18		5.4	OK	
5.002	SWMH 10	42	112.460	-0.159	0.000	0.19		5.4	OK	
7.000	SWMH 11	42	112.698	-0.177	0.000	0.10		2.9	OK	
7.001	SWSMH 12	42	112.628	-0.160	0.000	0.19		5.4	OK	
7.002	SWMH 13	42	112.554	-0.180	0.000	0.09		5.4	OK	
5.003	SWMH 14	24	111.561	-0.986	0.000	0.00		0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	7	113.157	0.282	0.000	0.90	25.2	SURCHARGED
6.000	SWMH 08	7	113.125	0.250	0.000	0.74	24.1	SURCHARGED
5.001	SWMH 09	7	113.077	0.308	0.000	1.55	46.0	SURCHARGED
5.002	SWMH 10	7	112.720	0.101	0.000	1.60	45.1	SURCHARGED
7.000	SWMH 11	7	113.056	0.181	0.000	1.10	30.6	SURCHARGED
7.001	SWSMH 12	7	112.944	0.157	0.000	1.97	56.5	SURCHARGED
7.002	SWMH 13	7	112.682	-0.051	0.000	0.94	57.3	OK
5.003	SWMH 14	35	111.455	-1.092	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	11	113.002	0.127	0.000	0.76	21.3	SURCHARGED
6.000	SWMH 08	11	112.985	0.110	0.000	0.61	20.0	SURCHARGED
5.001	SWMH 09	11	112.944	0.175	0.000	1.34	39.8	SURCHARGED
5.002	SWMH 10	11	112.676	0.057	0.000	1.40	39.4	SURCHARGED
7.000	SWMH 11	10	112.932	0.057	0.000	0.89	24.7	SURCHARGED
7.001	SWSMH 12	10	112.859	0.072	0.000	1.59	45.8	SURCHARGED
7.002	SWMH 13	10	112.655	-0.078	0.000	0.75	45.6	OK
5.003	SWMH 14	27	111.529	-1.019	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	15	112.798	-0.077	0.000	0.58	16.2	OK
6.000	SWMH 08	15	112.789	-0.086	0.000	0.47	15.3	OK
5.001	SWMH 09	15	112.758	-0.011	0.000	1.00	29.7	OK
5.002	SWMH 10	15	112.619	0.000	0.000	1.01	28.6	OK
7.000	SWMH 11	15	112.829	-0.046	0.000	0.60	16.8	OK
7.001	SWSMH 12	15	112.788	0.001	0.000	1.08	31.1	SURCHARGED
7.002	SWMH 13	15	112.624	-0.109	0.000	0.51	31.3	OK
5.003	SWMH 14	21	111.612	-0.936	0.000	0.00	0.0	OK

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Summary Wizard of 120 minute 30 year Winter I+0% for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Surcharged Flooded		Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe	Status
			Level (m)	Depth (m)				Flow (l/s)	
5.000	SWMH 07	27	112.745	-0.130	0.000	0.38	10.6	OK	
6.000	SWMH 08	27	112.735	-0.140	0.000	0.30	10.0	OK	
5.001	SWMH 09	27	112.682	-0.087	0.000	0.69	20.5	OK	
5.002	SWMH 10	26	112.537	-0.082	0.000	0.72	20.4	OK	
7.000	SWMH 11	27	112.750	-0.125	0.000	0.40	11.1	OK	
7.001	SWSMH 12	26	112.703	-0.084	0.000	0.72	20.5	OK	
7.002	SWMH 13	26	112.599	-0.135	0.000	0.34	20.5	OK	
5.003	SWMH 14	17	111.704	-0.844	0.000	0.00	0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s) Status
5.000	SWMH 07	31	112.732	-0.143	0.000	0.29	8.1	OK
6.000	SWMH 08	31	112.723	-0.152	0.000	0.23	7.7	OK
5.001	SWMH 09	31	112.661	-0.108	0.000	0.53	15.8	OK
5.002	SWMH 10	31	112.514	-0.105	0.000	0.56	15.8	OK
7.000	SWMH 11	31	112.735	-0.140	0.000	0.31	8.5	OK
7.001	SWSMH 12	31	112.681	-0.106	0.000	0.55	15.8	OK
7.002	SWMH 13	31	112.586	-0.147	0.000	0.26	15.8	OK
5.003	SWMH 14	14	111.759	-0.789	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s) Status
5.000	SWMH 07	34	112.724	-0.151	0.000	0.24	6.7	OK
6.000	SWMH 08	34	112.716	-0.159	0.000	0.19	6.3	OK
5.001	SWMH 09	34	112.647	-0.122	0.000	0.43	12.9	OK
5.002	SWMH 10	34	112.501	-0.118	0.000	0.46	12.9	OK
7.000	SWMH 11	34	112.726	-0.149	0.000	0.25	7.0	OK
7.001	SWSMH 12	34	112.668	-0.119	0.000	0.45	12.9	OK
7.002	SWMH 13	34	112.579	-0.155	0.000	0.21	12.9	OK
5.003	SWMH 14	12	111.797	-0.751	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	37	112.713	-0.162	0.000	0.18	5.0	OK
6.000	SWMH 08	37	112.706	-0.169	0.000	0.14	4.7	OK
5.001	SWMH 09	37	112.632	-0.137	0.000	0.33	9.7	OK
5.002	SWMH 10	37	112.485	-0.134	0.000	0.34	9.7	OK
7.000	SWMH 11	37	112.716	-0.159	0.000	0.19	5.2	OK
7.001	SWSMH 12	37	112.652	-0.135	0.000	0.34	9.7	OK
7.002	SWMH 13	37	112.568	-0.165	0.000	0.16	9.7	OK
5.003	SWMH 14	10	111.849	-0.698	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Pipe Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status
5.000	SWMH 07	1	113.851	0.976	0.966	1.31	36.7	FLOOD
6.000	SWMH 08	1	113.850	0.975	0.178	1.08	35.5	FLOOD
5.001	SWMH 09	1	113.730	0.961	0.000	2.27	67.4	FLOOD RISK
5.002	SWMH 10	1	112.942	0.323	0.000	2.38	67.2	SURCHARGED
7.000	SWMH 11	1	113.681	0.806	0.000	1.65	45.7	FLOOD RISK
7.001	SWSMH 12	1	113.426	0.639	0.000	3.04	87.2	SURCHARGED
7.002	SWMH 13	1	112.917	0.183	0.000	1.43	87.1	SURCHARGED
5.003	SWMH 14	22	111.596	-0.952	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe		
PN	US/MH Name	Storm Rank	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
5.000	SWMH 07	4	113.743	0.868	0.000	1.19		33.4	FLOOD RISK
6.000	SWMH 08	4	113.691	0.816	0.000	0.96		31.6	FLOOD RISK
5.001	SWMH 09	4	113.593	0.824	0.000	2.14		63.6	FLOOD RISK
5.002	SWMH 10	4	112.898	0.279	0.000	2.25		63.4	SURCHARGED
7.000	SWMH 11	4	113.359	0.484	0.000	1.43		39.6	SURCHARGED
7.001	SWSMH 12	4	113.179	0.392	0.000	2.57		73.9	SURCHARGED
7.002	SWMH 13	4	112.815	0.082	0.000	1.22		74.2	SURCHARGED
5.003	SWMH 14	16	111.726	-0.822	0.000	0.00		0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
5.000	SWMH 07	6	113.279	0.404	0.000	0.92	25.8	SURCHARGED
6.000	SWMH 08	6	113.247	0.372	0.000	0.74	24.4	SURCHARGED
5.001	SWMH 09	6	113.187	0.418	0.000	1.67	49.8	SURCHARGED
5.002	SWMH 10	6	112.757	0.138	0.000	1.76	49.8	SURCHARGED
7.000	SWMH 11	8	113.015	0.140	0.000	1.04	28.9	SURCHARGED
7.001	SWSMH 12	8	112.916	0.129	0.000	1.87	53.7	SURCHARGED
7.002	SWMH 13	8	112.675	-0.059	0.000	0.89	53.9	OK
5.003	SWMH 14	9	111.874	-0.674	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe		Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	
5.000	SWMH 07	12	112.883	0.008	0.000	0.63	17.7	SURCHARGED
6.000	SWMH 08	12	112.873	-0.002	0.000	0.51	16.7	OK
5.001	SWMH 09	12	112.836	0.067	0.000	1.13	33.7	SURCHARGED
5.002	SWMH 10	13	112.638	0.019	0.000	1.20	33.8	SURCHARGED
7.000	SWMH 11	14	112.847	-0.028	0.000	0.68	19.0	OK
7.001	SWSMH 12	14	112.803	0.015	0.000	1.22	35.1	SURCHARGED
7.002	SWMH 13	14	112.631	-0.102	0.000	0.58	35.1	OK
5.003	SWMH 14	6	112.038	-0.510	0.000	0.00	0.0	OK

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water		Surcharged		Flooded		Pipe Flow (l/s)	Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)			
5.000	SWMH 07	20	112.762	-0.113	0.000	0.49	13.9	OK		
6.000	SWMH 08	20	112.752	-0.123	0.000	0.40	13.1	OK		
5.001	SWMH 09	20	112.711	-0.058	0.000	0.90	26.9	OK		
5.002	SWMH 10	19	112.568	-0.051	0.000	0.95	26.9	OK		
7.000	SWMH 11	20	112.773	-0.102	0.000	0.52	14.5	OK		
7.001	SWSMH 12	19	112.734	-0.053	0.000	0.94	26.9	OK		
7.002	SWMH 13	19	112.613	-0.120	0.000	0.44	26.9	OK		
5.003	SWMH 14	4	112.136	-0.412	0.000	0.00	0.0	OK		

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

PN	US/MH Name	Storm Rank	Water	Surcharged	Flooded	Pipe			Status
			Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Flow (l/s)	
5.000	SWMH 07	23	112.749	-0.126	0.000	0.40	11.3	OK	
6.000	SWMH 08	23	112.738	-0.137	0.000	0.32	10.6	OK	
5.001	SWMH 09	23	112.688	-0.081	0.000	0.74	21.9	OK	
5.002	SWMH 10	23	112.544	-0.075	0.000	0.78	21.9	OK	
7.000	SWMH 11	23	112.755	-0.120	0.000	0.43	11.8	OK	
7.001	SWSMH 12	23	112.710	-0.077	0.000	0.76	21.9	OK	
7.002	SWMH 13	23	112.602	-0.132	0.000	0.36	21.9	OK	
5.003	SWMH 14	2	112.202	-0.346	0.000	0.00	0.0	OK	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 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 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) 0.750
 Region England and Wales Ratio R 0.305 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 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
 Return Period(s) (years) 2, 30, 100
 Climate Change (%) 0, 0, 30

			Water	Surcharged	Flooded		Pipe	
	US/MH	Storm	Level	Depth	Volume	Flow /	Overflow	Pipe
PN	Name	Rank	(m)	(m)	(m³)	Cap.	(l/s)	(l/s) Status
5.000	SWMH 07	30	112.734	-0.141	0.000	0.30	8.4	OK
6.000	SWMH 08	30	112.725	-0.150	0.000	0.24	7.9	OK
5.001	SWMH 09	30	112.663	-0.106	0.000	0.55	16.3	OK
5.002	SWMH 10	30	112.517	-0.102	0.000	0.58	16.3	OK
7.000	SWMH 11	30	112.737	-0.138	0.000	0.32	8.8	OK
7.001	SWSMH 12	30	112.684	-0.104	0.000	0.57	16.3	OK
7.002	SWMH 13	30	112.588	-0.146	0.000	0.27	16.3	OK
5.003	SWMH 14	1	112.314	-0.234	0.000	0.11	4.8	OK