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Caversham Bridge House Waterman Place Reading RG1 8DN	Dunsbury Hil Farm PRELIMINARY MODELLING	
Date 11.05.2015 File 2015.05.07 - NETWORK REV 0.mdx	Designed by CMB Checked by	
XP Solutions	Network 2014.1.1	

Existing Network Details for Storm

- Indicates pipe length does not match coordinates

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)
S1.000	2.672	0.036	74.2	1.785	4.00	0.600	o	375
S1.001	45.727	0.614	74.5	0.000	0.00	0.600	o	375
S1.002	67.041	1.975	33.9	0.000	0.00	0.600	o	375
S2.000	2.843	0.122	23.3	0.776	4.00	0.600	o	225
S2.001	76.514	3.303	23.2	0.000	0.00	0.600	o	225
S1.003	70.052	2.700	25.9	0.000	0.00	0.600	o	450
S1.004	38.260	1.500	25.5	0.000	0.00	0.600	o	450
S1.005	27.656	1.000	27.7	0.000	0.00	0.600	o	450
S1.006	40.694	1.300	31.3	0.000	0.00	0.600	o	450
S3.000	2.565	0.007	366.4	1.139	4.00	0.600	o	450
S3.001	15.883	0.041	387.4	0.000	0.00	0.600	o	450
S1.007	64.295	2.800	23.0	0.000	0.00	0.600	o	450
S1.008	117.334	2.425	48.4	0.000	0.00	0.600	o	450
S1.009	73.887	2.425	30.5	0.000	0.00	0.600	o	525
S4.000	2.319	0.011	210.8	1.933	4.00	0.600	o	300
S4.001	11.478	0.047	244.2	0.000	0.00	0.600	o	300
S1.010	53.671	0.076	706.2	0.000	0.00	0.600	o	750
S5.000	2.598	0.117	22.2	0.624	4.00	0.600	o	225
S5.001	72.754	3.278	22.2	0.000	0.00	0.600	o	225
S5.002	49.314	2.500	19.7	0.000	0.00	0.600	o	300
S6.000	2.458	0.015	163.9	0.477	4.00	0.600	o	225

PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
S1.000	1	37.000	34.800	1.825	36.790	34.764	1.651		1350
S1.001	2	36.790	34.764	1.651	35.909	34.150	1.384	Orifice	1350
S1.002	3	35.909	34.150	1.384	34.140	32.175	1.590		1350
S2.000	4	37.000	35.750	1.025	37.000	35.628	1.147		1200
S2.001	5	37.000	35.628	1.147	34.140	32.325	1.590	Orifice	1200
S1.003	6	34.140	32.100	1.590	31.580	29.400	1.730		1350
S1.004	7	31.580	29.400	1.730	30.203	27.900	1.853		1350
S1.005	8	30.203	27.900	1.853	29.220	26.900	1.870		1350
S1.006	9	29.220	26.900	1.870	28.000	25.600	1.950		1350
S3.000	10	28.141	25.648	2.043	28.069	25.641	1.978		1350
S3.001	11	28.069	25.641	1.978	28.000	25.600	1.950	Orifice	1350
S1.007	12	28.000	25.600	1.950	26.000	22.800	2.750		1350
S1.008	13	26.000	22.800	2.750	24.000	20.375	3.175		1350
S1.009	14	24.000	20.300	3.175	21.943	17.875	3.543		1500
S4.000	15	22.000	18.158	3.542	22.000	18.147	3.553		1200
S4.001	16	22.000	18.147	3.553	21.943	18.100	3.543	Orifice	1200
S1.010	17	21.943	17.076	4.117	19.536	17.000	1.786		1800
S5.000	18	33.257	31.540	1.492	33.260	31.423	1.612		1200
S5.001	19	33.260	31.423	1.612	30.000	28.145	1.630	Orifice	1200
S5.002	20	30.000	28.070	1.630	27.442	25.570	1.572		1200
S6.000	21	27.538	25.690	1.623	27.561	25.675	1.661		1200

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PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)
S6.001	5.122	0.030	170.7	0.000	0.00	0.600	o	225
S5.003	25.797	0.520	49.6	0.000	0.00	0.600	o	300
S7.000	2.365	0.178	13.3	1.139	4.00	0.600	o	450
S7.001	16.271	1.222	13.3	0.000	0.00	0.600	o	450
S5.004	61.532	1.220	50.4	0.000	0.00	0.600	o	450
S5.005	70.827	2.980	23.8	0.000	0.00	0.600	o	450
S8.000	2.577	0.019	135.6	0.546	4.00	0.600	o	450
S8.001	38.041	0.281	135.4	0.000	0.00	0.600	o	450
S5.006	101.960	2.650	38.5	0.000	0.00	0.600	o	450
S5.007	136.976	0.247	554.6	0.000	0.00	0.600	o	600
S9.000	2.600	0.007	371.4	1.656	4.00	0.600	o	450
S9.001	19.307	0.049	394.0	0.000	0.00	0.600	o	450
S1.011	58.150	0.600	96.9	0.000	0.00	0.600	o	750
S1.012	5.000#	1.000	5.0	0.000	0.00	0.600	o	225

PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
S6.001	22	27.561	25.675	1.661	27.442	25.645	1.572	Orifice	1200
S5.003	23	27.442	25.570	1.572	27.320	25.050	1.970		1200
S7.000	24	30.921	26.300	4.171	30.894	26.122	4.322		1350
S7.001	25	30.894	26.122	4.322	27.320	24.900	1.970	Orifice	1350
S5.004	26	27.320	24.900	1.970	25.691	23.680	1.561		1350
S5.005	27	25.691	23.680	1.561	22.652	20.700	1.502		1350
S8.000	28	23.042	21.000	1.592	23.013	20.981	1.582		1350
S8.001	29	23.013	20.981	1.582	22.652	20.700	1.502	Orifice	1350
S5.006	30	22.652	20.700	1.502	19.453	18.050	0.953		1350
S5.007	31	19.453	17.397	1.456	19.536	17.150	1.786		1500
S9.000	32	20.384	17.356	2.578	20.230	17.349	2.431		1350
S9.001	33	20.230	17.349	2.431	19.536	17.300	1.786	Orifice	1350
S1.011	34	19.536	17.000	1.786	17.500	16.400	0.350	Orifice	1800
S1.012	35	17.500	16.000	1.275	16.000	15.000	0.775	Orifice	1800

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
S1.012	S	16.000	15.000	15.250	0	0

Caversham Bridge House
Waterman Place
Reading RG1 8DN

Dunsbury Hil Farm
PRELIMINARY MODELLING



Micro
Drainage

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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1
Number of Input Hydrographs	0	Number of Offline Controls	0
Number of Online Controls	11	Number of Storage Structures	10
		Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	2	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.400	Storm Duration (mins)	30
Ratio R	0.350		

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<u>Online Controls for Storm</u> <u>Orifice Manhole: S2, DS/PN: S1.001, Volume (m³): 3.0</u> Diameter (m) 0.134 Discharge Coefficient 0.600 Invert Level (m) 34.764 <u>Orifice Manhole: S5, DS/PN: S2.001, Volume (m³): 1.6</u> Diameter (m) 0.084 Discharge Coefficient 0.600 Invert Level (m) 35.628 <u>Orifice Manhole: S11, DS/PN: S3.001, Volume (m³): 3.7</u> Diameter (m) 0.125 Discharge Coefficient 0.600 Invert Level (m) 25.641 <u>Orifice Manhole: S16, DS/PN: S4.001, Volume (m³): 4.4</u> Diameter (m) 0.137 Discharge Coefficient 0.600 Invert Level (m) 18.147 <u>Orifice Manhole: S19, DS/PN: S5.001, Volume (m³): 2.1</u> Diameter (m) 0.076 Discharge Coefficient 0.600 Invert Level (m) 31.423 <u>Orifice Manhole: S22, DS/PN: S6.001, Volume (m³): 2.2</u> Diameter (m) 0.068 Discharge Coefficient 0.600 Invert Level (m) 25.675 <u>Orifice Manhole: S25, DS/PN: S7.001, Volume (m³): 7.0</u> Diameter (m) 0.103 Discharge Coefficient 0.600 Invert Level (m) 26.122 <u>Orifice Manhole: S29, DS/PN: S8.001, Volume (m³): 3.1</u> Diameter (m) 0.075 Discharge Coefficient 0.600 Invert Level (m) 20.981 <u>Orifice Manhole: S33, DS/PN: S9.001, Volume (m³): 4.3</u> Diameter (m) 0.130 Discharge Coefficient 0.600 Invert Level (m) 17.349 <u>Orifice Manhole: S34, DS/PN: S1.011, Volume (m³): 70.5</u> Diameter (m) 0.270 Discharge Coefficient 0.600 Invert Level (m) 17.000 <u>Orifice Manhole: S35, DS/PN: S1.012, Volume (m³): 28.7</u> Diameter (m) 0.130 Discharge Coefficient 0.600 Invert Level (m) 16.250		
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PRELIMINARY MODELLING



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Cellular Storage Manhole: S1, DS/PN: S1.000

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	1296.0	1296.0	0.800	1296.0	1411.2	0.801	0.0	1411.2

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	529.0	529.0	0.800	529.0	602.6	0.801	0.0	602.6

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	841.0	841.0	0.800	841.0	933.8	0.801	0.0	933.8

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	1369.0	1369.0	0.800	1369.0	1487.4	0.801	0.0	1487.4

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	441.0	441.0	0.800	441.0	508.2	0.801	0.0	508.2

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	324.0	324.0	0.800	324.0	381.6	0.801	0.0	381.6

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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	841.0	841.0	0.800	841.0	933.8	0.801	0.0	933.8

Invert Level (m)	21.000	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

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	400.0	400.0	0.800	400.0	464.0	0.801	0.0	464.0

Invert Level (m)	17.356	Safety Factor	2.0
Infiltration Coefficient Base (m/hr)	0.00000	Porosity	0.95
Infiltration Coefficient Side (m/hr)	0.00000		

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	1225.0	1225.0	0.800	1225.0	1337.0	0.801	0.0	1337.0

Invert Level (m) 16.000

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	5030.0	1.000	6363.0

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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

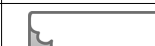
PN	US/MH Name	Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
		Level (m)		Volume (m³)			Flow (l/s)	
S1.002	S3	34.200	-0.325	0.000	0.04	0.0	14.0	OK
S2.000	S4	35.897	-0.078	0.000	0.15	0.0	7.4	OK
S2.001	S5	35.905	0.052	0.000	0.07	0.0	7.0	SURCHARGED
S1.003	S6	32.155	-0.395	0.000	0.04	0.0	20.9	OK
S1.004	S7	29.456	-0.394	0.000	0.04	0.0	20.9	OK
S1.005	S8	27.958	-0.392	0.000	0.04	0.0	20.9	OK
S1.006	S9	26.958	-0.392	0.000	0.04	0.0	20.9	OK
S3.000	S10	25.831	-0.267	0.000	0.07	0.0	8.6	OK
S3.001	S11	25.843	-0.248	0.000	0.07	0.0	8.1	OK
S1.007	S12	25.662	-0.388	0.000	0.05	0.0	28.9	OK
S1.008	S13	22.874	-0.376	0.000	0.06	0.0	28.9	OK
S1.009	S14	20.364	-0.461	0.000	0.04	0.0	28.9	OK
S4.000	S15	18.345	-0.113	0.000	0.27	0.0	14.3	OK
S4.001	S16	18.359	-0.088	0.000	0.24	0.0	13.9	OK
S1.010	S17	17.397	-0.429	0.000	0.11	0.0	42.7	OK
S5.000	S18	31.681	-0.084	0.000	0.13	0.0	6.0	OK
S5.001	S19	31.691	0.043	0.000	0.05	0.0	5.7	SURCHARGED
S5.002	S20	28.101	-0.269	0.000	0.02	0.0	5.7	OK
S6.000	S21	25.858	-0.057	0.000	0.14	0.0	4.0	OK
S6.001	S22	25.867	-0.033	0.000	0.13	0.0	3.7	OK
S5.003	S23	25.620	-0.250	0.000	0.07	0.0	9.4	OK
S7.000	S24	26.432	-0.318	0.000	0.05	0.0	12.1	OK
S7.001	S25	26.464	-0.108	0.000	0.02	0.0	11.5	OK
S5.004	S26	24.964	-0.386	0.000	0.05	0.0	20.9	OK
S5.005	S27	23.733	-0.397	0.000	0.03	0.0	20.9	OK
S8.000	S28	21.155	-0.295	0.000	0.04	0.0	4.8	OK
S8.001	S29	21.168	-0.263	0.000	0.02	0.0	4.4	OK
S5.006	S30	20.765	-0.385	0.000	0.05	0.0	25.3	OK
S5.007	S31	17.527	-0.470	0.000	0.09	0.0	25.0	OK
S9.000	S32	17.546	-0.260	0.000	0.10	0.0	12.2	OK
S9.001	S33	17.561	-0.238	0.000	0.09	0.0	11.5	OK
S1.011	S34	17.384	-0.366	0.000	0.07	0.0	75.8	OK
S1.012	S35	16.442	0.217	0.000	0.09	0.0	12.6	SURCHARGED

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

PN	US/MH Name	Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
		Level (m)		Volume (m³)			Flow (l/s)	
S1.002	S3	34.214	-0.311	0.000	0.07	0.0	22.2	OK
S2.000	S4	36.134	0.159	0.000	0.22	0.0	10.8	SURCHARGED
S2.001	S5	36.147	0.294	0.000	0.09	0.0	10.0	SURCHARGED
S1.003	S6	32.168	-0.382	0.000	0.05	0.0	32.1	OK
S1.004	S7	29.469	-0.381	0.000	0.06	0.0	32.1	OK
S1.005	S8	27.972	-0.378	0.000	0.06	0.0	32.1	OK
S1.006	S9	26.972	-0.378	0.000	0.06	0.0	32.1	OK
S3.000	S10	26.032	-0.066	0.000	0.17	0.0	21.4	OK
S3.001	S11	26.171	0.080	0.000	0.15	0.0	17.4	SURCHARGED
S1.007	S12	25.683	-0.367	0.000	0.08	0.0	48.7	OK
S1.008	S13	22.899	-0.351	0.000	0.11	0.0	48.6	OK
S1.009	S14	20.383	-0.442	0.000	0.06	0.0	48.7	OK
S4.000	S15	18.578	0.120	0.000	0.47	0.0	25.0	SURCHARGED
S4.001	S16	18.620	0.173	0.000	0.41	0.0	23.1	SURCHARGED
S1.010	S17	17.706	-0.120	0.000	0.18	0.0	70.2	OK
S5.000	S18	31.911	0.146	0.000	0.18	0.0	8.9	SURCHARGED
S5.001	S19	31.933	0.285	0.000	0.08	0.0	8.1	SURCHARGED
S5.002	S20	28.106	-0.264	0.000	0.03	0.0	8.1	OK
S6.000	S21	26.096	0.181	0.000	0.24	0.0	6.7	SURCHARGED
S6.001	S22	26.121	0.221	0.000	0.21	0.0	6.0	SURCHARGED
S5.003	S23	25.633	-0.237	0.000	0.10	0.0	14.1	OK
S7.000	S24	26.653	-0.097	0.000	0.09	0.0	22.0	OK
S7.001	S25	26.802	0.230	0.000	0.03	0.0	15.7	SURCHARGED
S5.004	S26	24.979	-0.371	0.000	0.07	0.0	29.7	OK
S5.005	S27	23.743	-0.387	0.000	0.05	0.0	29.6	OK
S8.000	S28	21.374	-0.076	0.000	0.09	0.0	11.3	OK
S8.001	S29	21.499	0.068	0.000	0.03	0.0	7.2	SURCHARGED
S5.006	S30	20.780	-0.370	0.000	0.07	0.0	36.8	OK
S5.007	S31	17.710	-0.287	0.000	0.13	0.0	36.7	OK
S9.000	S32	17.843	0.037	0.000	0.17	0.0	21.9	SURCHARGED
S9.001	S33	17.894	0.095	0.000	0.14	0.0	18.6	SURCHARGED
S1.011	S34	17.695	-0.055	0.000	0.11	0.0	113.9	OK
S1.012	S35	16.814	0.589	0.000	0.18	0.0	24.9	SURCHARGED

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Date 11.05.2015 File 2015.05.07 - NETWORK REV 0.mdx	Designed by CMB Checked by	
XP Solutions	Network 2014.1.1	

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

PN	US/MH Name	Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
		Level (m)		Volume (m³)			Flow (l/s)	
S1.002	S3	34.221	-0.304	0.000	0.08	0.0	25.8	OK
S2.000	S4	36.273	0.298	0.000	0.25	0.0	12.1	SURCHARGED
S2.001	S5	36.284	0.431	0.000	0.11	0.0	11.4	SURCHARGED
S1.003	S6	32.173	-0.377	0.000	0.06	0.0	37.2	OK
S1.004	S7	29.475	-0.375	0.000	0.07	0.0	37.2	OK
S1.005	S8	27.978	-0.372	0.000	0.07	0.0	37.2	OK
S1.006	S9	26.979	-0.371	0.000	0.07	0.0	37.1	OK
S3.000	S10	26.169	0.071	0.000	0.20	0.0	25.3	SURCHARGED
S3.001	S11	26.354	0.263	0.000	0.15	0.0	17.3	SURCHARGED
S1.007	S12	25.688	-0.362	0.000	0.08	0.0	53.2	OK
S1.008	S13	22.903	-0.347	0.000	0.12	0.0	53.1	OK
S1.009	S14	20.387	-0.438	0.000	0.07	0.0	53.2	OK
S4.000	S15	18.713	0.255	0.000	0.55	0.0	29.0	SURCHARGED
S4.001	S16	18.746	0.299	0.000	0.48	0.0	27.1	SURCHARGED
S1.010	S17	17.870	0.044	0.000	0.20	0.0	80.2	SURCHARGED
S5.000	S18	32.046	0.281	0.000	0.21	0.0	10.0	SURCHARGED
S5.001	S19	32.056	0.408	0.000	0.09	0.0	9.2	SURCHARGED
S5.002	S20	28.108	-0.262	0.000	0.04	0.0	9.2	OK
S6.000	S21	26.235	0.320	0.000	0.28	0.0	7.8	SURCHARGED
S6.001	S22	26.259	0.359	0.000	0.24	0.0	7.0	SURCHARGED
S5.003	S23	25.637	-0.233	0.000	0.11	0.0	16.2	OK
S7.000	S24	26.787	0.037	0.000	0.10	0.0	24.5	SURCHARGED
S7.001	S25	26.950	0.378	0.000	0.03	0.0	16.9	SURCHARGED
S5.004	S26	24.985	-0.365	0.000	0.08	0.0	33.0	OK
S5.005	S27	23.747	-0.383	0.000	0.05	0.0	33.0	OK
S8.000	S28	21.507	0.057	0.000	0.10	0.0	12.0	SURCHARGED
S8.001	S29	21.636	0.205	0.000	0.03	0.0	7.9	SURCHARGED
S5.006	S30	20.786	-0.364	0.000	0.08	0.0	40.9	OK
S5.007	S31	17.874	-0.123	0.000	0.15	0.0	40.7	OK
S9.000	S32	17.997	0.191	0.000	0.19	0.0	23.9	SURCHARGED
S9.001	S33	18.075	0.276	0.000	0.16	0.0	20.1	SURCHARGED
S1.011	S34	17.858	0.108	0.000	0.12	0.0	129.4	SURCHARGED
S1.012	S35	16.994	0.769	0.000	0.21	0.0	29.1	SURCHARGED

Dunsbury Hil Farm
PRELIMINARY MODELLING

Designed by CMB
Checked by



Network 2014.1.1

Simulation Criteria

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	11	Number of Storage Structures	10	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	M5-60 (mm)	19.400	Cv (Summer)	0.750
Region	England and Wales	Ratio R	0.350	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 30

PN	Storm	Return Period	Climate Change	First X Surchage	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
S1.000	360 Winter	100	+30%	30/240 Winter				
S1.001	360 Winter	100	+30%	30/60 Winter				
S1.002	360 Winter	100	+30%					
S2.000	240 Winter	100	+30%	30/30 Summer				
S2.001	240 Winter	100	+30%	1/30 Winter				
S1.003	240 Winter	100	+30%					
S1.004	240 Winter	100	+30%					
S1.005	240 Winter	100	+30%					
S1.006	360 Winter	100	+30%					
S3.000	240 Winter	100	+30%	100/60 Summer				
S3.001	480 Winter	100	+30%	30/240 Winter				
S1.007	360 Winter	100	+30%					
S1.008	360 Winter	100	+30%					
S1.009	360 Winter	100	+30%					
S4.000	360 Winter	100	+30%	30/60 Summer				
S4.001	480 Winter	100	+30%	30/30 Winter				
S1.010	480 Winter	100	+30%	100/60 Winter				
S5.000	240 Winter	100	+30%	30/30 Summer				
S5.001	240 Winter	100	+30%	1/30 Winter				
S5.002	240 Winter	100	+30%					
S6.000	240 Winter	100	+30%	30/30 Summer				
S6.001	240 Winter	100	+30%	30/15 Winter				
S5.003	240 Winter	100	+30%					
S7.000	240 Winter	100	+30%	100/60 Summer				
S7.001	480 Winter	100	+30%	30/30 Summer				
S5.004	240 Winter	100	+30%					
S5.005	240 Winter	100	+30%					
S8.000	240 Winter	100	+30%	100/60 Summer				
S8.001	240 Winter	100	+30%	30/120 Winter				
S5.006	240 Winter	100	+30%					
S5.007	480 Winter	100	+30%	100/120 Winter				
S9.000	480 Winter	100	+30%	30/240 Winter				
S9.001	480 Winter	100	+30%	30/120 Winter				
S1.011	480 Winter	100	+30%	100/60 Summer				
S1.012	1440 Winter	100	+30%	1/240 Winter				

PN	US/MH Name	Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
		Level (m)		Volume (m³)			Flow (l/s)	
S1.000	S1	35.500	0.325	0.000	0.32	0.0	34.6	SURCHARGED
S1.001	S2	35.608	0.469	0.000	0.14	0.0	30.1	SURCHARGED

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		Level (m)		Volume (m³)			Flow (1/s)	
S1.002	S3	34.227	-0.298	0.000	0.09	0.0	30.2	OK
S2.000	S4	36.460	0.485	0.000	0.28	0.0	13.8	SURCHARGED
S2.001	S5	36.472	0.619	0.000	0.12	0.0	13.0	SURCHARGED
S1.003	S6	32.180	-0.370	0.000	0.07	0.0	43.1	OK
S1.004	S7	29.482	-0.368	0.000	0.08	0.0	43.1	OK
S1.005	S8	27.986	-0.364	0.000	0.08	0.0	43.1	OK
S1.006	S9	26.987	-0.363	0.000	0.08	0.0	43.1	OK
S3.000	S10	26.346	0.248	0.000	0.18	0.0	22.9	SURCHARGED
S3.001	S11	26.632	0.541	0.000	0.16	0.0	18.8	SURCHARGED
S1.007	S12	25.695	-0.355	0.000	0.10	0.0	61.5	OK
S1.008	S13	22.911	-0.339	0.000	0.14	0.0	61.4	OK
S1.009	S14	20.396	-0.429	0.000	0.08	0.0	61.4	OK
S4.000	S15	18.899	0.441	0.000	0.63	0.0	33.4	SURCHARGED
S4.001	S16	18.932	0.485	0.000	0.56	0.0	31.6	SURCHARGED
S1.010	S17	18.277	0.451	0.000	0.23	0.0	92.0	SURCHARGED
S5.000	S18	32.228	0.463	0.000	0.24	0.0	11.3	SURCHARGED
S5.001	S19	32.242	0.594	0.000	0.10	0.0	10.5	SURCHARGED
S5.002	S20	28.111	-0.259	0.000	0.04	0.0	10.5	OK
S6.000	S21	26.421	0.506	0.000	0.32	0.0	8.9	SURCHARGED
S6.001	S22	26.445	0.545	0.000	0.28	0.0	8.1	SURCHARGED
S5.003	S23	25.642	-0.228	0.000	0.13	0.0	18.7	OK
S7.000	S24	26.966	0.216	0.000	0.11	0.0	26.8	SURCHARGED
S7.001	S25	27.181	0.609	0.000	0.03	0.0	19.0	SURCHARGED
S5.004	S26	24.991	-0.359	0.000	0.09	0.0	37.9	OK
S5.005	S27	23.752	-0.378	0.000	0.06	0.0	37.9	OK
S8.000	S28	21.683	0.233	0.000	0.18	0.0	23.0	SURCHARGED
S8.001	S29	21.912	0.481	0.000	0.04	0.0	9.2	SURCHARGED
S5.006	S30	20.793	-0.357	0.000	0.09	0.0	47.1	OK
S5.007	S31	18.282	0.285	0.000	0.17	0.0	46.7	SURCHARGED
S9.000	S32	18.875	1.069	0.000	0.22	0.0	27.5	SURCHARGED
S9.001	S33	18.918	1.119	0.000	0.21	0.0	27.4	SURCHARGED
S1.011	S34	18.263	0.513	0.000	0.15	0.0	161.6	SURCHARGED
S1.012	S35	17.245	1.020	0.000	0.24	0.0	34.0	FLOOD RISK