DEVELOPMENT AT

Mitton Road Business Park
Mitton Road, Whalley, Clitheroe
Phases 2 & 3

SURFACE WATER FLOWS

Surface Water Impermeable Area Plan
Design Criteria, Time Area, Network Details
Network Results & Pipeline Schedule.
Outfall Details, Hydrobrake Specifications, Tank Details

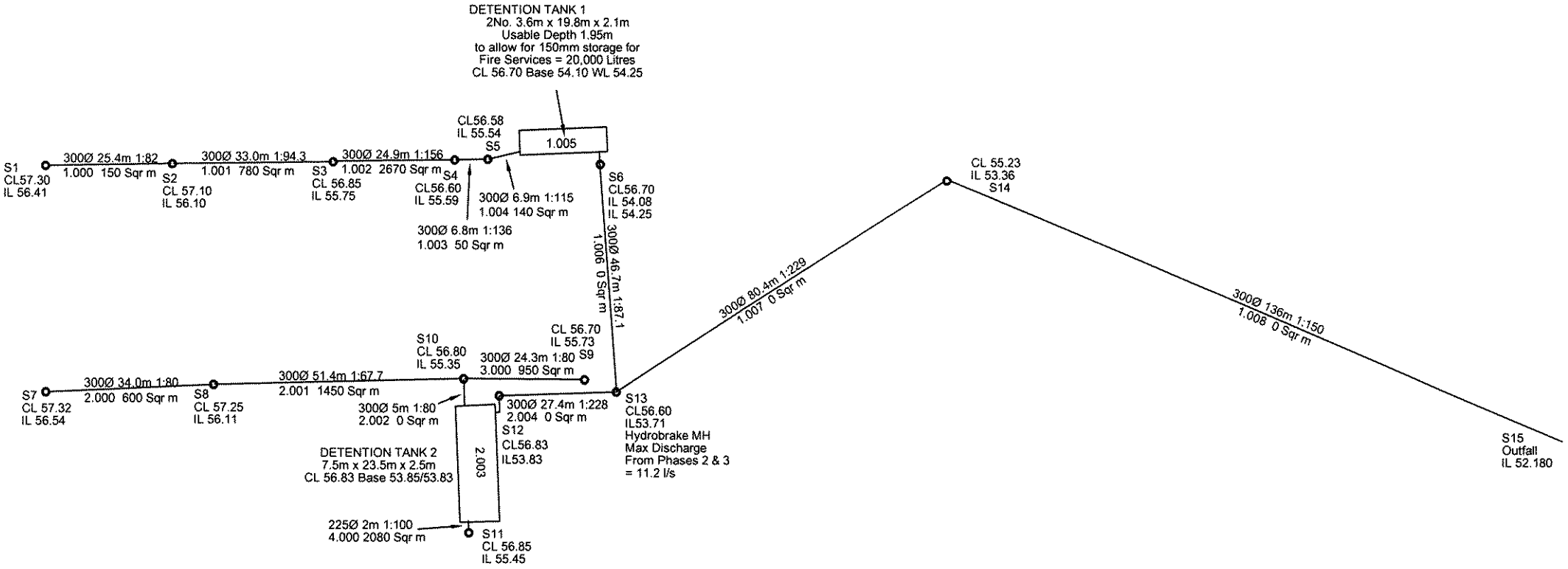
Summer 1 in 1 Year Storms 15 to 360 Minute Duration
Winter 1 in 1 Year Storms 15 to 360 Minute Duration

Summer 1 in 30 Year Storms 15 to 360 Minute Duration
Winter 1 in 30 Year Storms 15 to 360 Minute Duration

Summer 1 in 30 Yr Storms +1m Surcharge 15 to 360 Min Duration
Winter 1 in 30 Yr Storms +1m Surcharge 15 to 360 Min Duration

Summer 1 in 100 Yr +30% Storms 15 to 1440 Minute Duration
Winter 1 in 100 Yr +30% Storms 15 to 1440 Min Duration

June 2025



Surface Water System

	Mitton Road Business Park Mitton Road Clitheroe
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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)	1	PIMP (%)	100
M5-60 (mm)	19.000	Add Flow / Climate Change (%)	0
Ratio R	0.300	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.013	4-8	0.762	8-12	0.112

Total Area Contributing (ha) = 0.887

Total Pipe Volume (m³) = 600.943

Network Design Table for Storm

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	25.400	0.240	105.8	0.015	5.00	0.0	0.600	o	300	Pipe/Conduit	
1.001	33.000	0.330	100.0	0.078	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.002	24.900	0.310	80.3	0.267	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	6.800	0.070	97.1	0.005	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.004	6.900	0.080	86.3	0.014	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	44.06	5.28	56.410	0.015	0.0	0.0	0.0	1.53	108.0	1.8
1.001	42.92	5.63	56.170	0.093	0.0	0.0	0.0	1.57	111.1	10.8
1.002	42.19	5.86	55.840	0.360	0.0	0.0	0.0	1.76	124.1	41.1
1.003	41.98	5.93	55.530	0.365	0.0	0.0	0.0	1.60	112.8	41.5
1.004	41.77	6.00	55.460	0.379	0.0	0.0	0.0	1.69	119.7	42.9

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Clitheroe

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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
1.005	19.800	0.004	4950.0	0.000	0.00	0.0	0.600	[]	-2	Pipe/Conduit	
1.006	46.700	0.536	87.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.000	34.000	0.430	79.1	0.060	5.00	0.0	0.600	o	300	Pipe/Conduit	
2.001	51.400	0.760	67.6	0.145	0.00	0.0	0.600	o	300	Pipe/Conduit	
3.000	24.300	0.380	63.9	0.095	5.00	0.0	0.600	o	300	Pipe/Conduit	
2.002	5.000	0.063	79.4	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
4.000	2.000	0.020	100.0	0.208	5.00	0.0	0.600	o	225	Pipe/Conduit	
2.003	23.500	0.020	1175.0	0.000	0.00	0.0	0.600	[]	-3	Pipe/Conduit	
2.004	27.400	0.120	228.3	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.007	80.400	0.350	229.7	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.008	136.000	0.910	149.5	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)
1.005	40.59	6.42	54.250	0.379	0.0	0.0	0.0	0.79	4988.2	42.9
1.006	39.36	6.88	54.246	0.379	0.0	0.0	0.0	1.69	119.1	42.9
2.000	43.91	5.32	56.540	0.060	0.0	0.0	0.0	1.77	125.1	7.1
2.001	42.48	5.77	56.110	0.205	0.0	0.0	0.0	1.91	135.3	23.6
3.000	44.30	5.21	55.730	0.095	0.0	0.0	0.0	1.97	139.2	11.4
2.002	42.34	5.81	55.350	0.300	0.0	0.0	0.0	1.77	124.9	34.4
4.000	44.92	5.03	55.450	0.208	0.0	0.0	0.0	1.31	52.0	25.3
2.003	41.79	6.00	53.850	0.508	0.0	0.0	0.0	2.17	40706.9	57.5
2.004	40.54	6.44	53.830	0.508	0.0	0.0	0.0	1.04	73.3	57.5
1.007	36.35	8.18	53.710	0.887	0.0	0.0	0.0	1.03	73.0«	87.3
1.008	33.04	9.94	53.360	0.887	0.0	0.0	0.0	1.28	90.7	87.3

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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	300	2400	57.300	56.410	0.590	Open Manhole	1200
1.001	o	300	S2	57.150	56.170	0.680	Open Manhole	1200
1.002	o	300	S3	56.950	55.840	0.810	Open Manhole	1200
1.003	o	300	S4	56.600	55.530	0.770	Open Manhole	1200
1.004	o	300	S5	56.580	55.460	0.820	Open Manhole	1200
1.005	[]	-2	Tank 1	56.700	54.250	0.500	Open Manhole	3000
1.006	o	300	S6	56.700	54.246	2.154	Open Manhole	1200 x 600
2.000	o	300	S7	57.320	56.540	0.480	Open Manhole	1200
2.001	o	300	S8	57.250	56.110	0.840	Open Manhole	1200
3.000	o	300	S9	56.700	55.730	0.670	Open Manhole	1200
2.002	o	300	S10	56.800	55.350	1.150	Open Manhole	1200
4.000	o	225	S11	56.950	55.450	1.175	Open Manhole	1200
2.003	[]	-3	Tank 2	56.830	53.850	0.480	Open Manhole	3000
2.004	o	300	S12	56.830	53.830	2.700	Open Manhole	1200 x 600
1.007	o	300	S13	56.600	53.710	2.590	Open Manhole	2400

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	25.400	105.8	S2	57.150	56.170	0.680	Open Manhole	1200
1.001	33.000	100.0	S3	56.950	55.840	0.810	Open Manhole	1200
1.002	24.900	80.3	S4	56.600	55.530	0.770	Open Manhole	1200
1.003	6.800	97.1	S5	56.580	55.460	0.820	Open Manhole	1200
1.004	6.900	86.3	Tank 1	56.700	55.380	1.020	Open Manhole	3000
1.005	19.800	4950.0	S6	56.700	54.246	0.504	Open Manhole	1200 x 600
1.006	46.700	87.1	S13	56.600	53.710	2.590	Open Manhole	2400
2.000	34.000	79.1	S8	57.250	56.110	0.840	Open Manhole	1200
2.001	51.400	67.6	S10	56.800	55.350	1.150	Open Manhole	1200
3.000	24.300	63.9	S10	56.800	55.350	1.150	Open Manhole	1200
2.002	5.000	79.4	Tank 2	56.830	55.287	1.243	Open Manhole	3000
4.000	2.000	100.0	Tank 2	56.830	55.430	1.175	Open Manhole	3000
2.003	23.500	1175.0	S12	56.830	53.830	0.500	Open Manhole	1200 x 600
2.004	27.400	228.3	S13	56.600	53.710	2.590	Open Manhole	2400
1.007	80.400	229.7	S15	55.230	53.360	1.570	Open Manhole	1200 x 600

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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)
1.008	o	300	S15	55.230	53.360	1.570	Open Manhole	1200 x 600

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)
1.008	136.000	149.5	S15 Outfall	53.350	52.450	0.600	Open Manhole	0

Surcharged Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.008	S15 Outfall	53.350	52.450	0.000	0	0

Datum (m) 0.000 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
1	0.000	25	0.000	49	0.000	73	0.000	97	0.000	121	0.000
2	0.000	26	0.000	50	0.000	74	0.000	98	0.000	122	0.000
3	0.000	27	0.000	51	0.000	75	0.000	99	0.000	123	0.000
4	0.000	28	0.000	52	0.000	76	0.000	100	0.000	124	0.000
5	0.000	29	0.000	53	0.000	77	0.000	101	0.000	125	0.000
6	0.000	30	0.000	54	0.000	78	0.000	102	0.000	126	0.000
7	0.000	31	0.000	55	0.000	79	0.000	103	0.000	127	0.000
8	0.000	32	0.000	56	0.000	80	0.000	104	0.000	128	0.000
9	0.000	33	0.000	57	0.000	81	0.000	105	0.000	129	0.000
10	0.000	34	0.000	58	0.000	82	0.000	106	0.000	130	0.000
11	0.000	35	0.000	59	0.000	83	0.000	107	0.000	131	0.000
12	0.000	36	0.000	60	0.000	84	0.000	108	0.000	132	0.000
13	0.000	37	0.000	61	0.000	85	0.000	109	0.000	133	0.000
14	0.000	38	0.000	62	0.000	86	0.000	110	0.000	134	0.000
15	0.000	39	0.000	63	0.000	87	0.000	111	0.000	135	0.000
16	0.000	40	0.000	64	0.000	88	0.000	112	0.000	136	0.000
17	0.000	41	0.000	65	0.000	89	0.000	113	0.000	137	0.000
18	0.000	42	0.000	66	0.000	90	0.000	114	0.000	138	0.000
19	0.000	43	0.000	67	0.000	91	0.000	115	0.000	139	0.000
20	0.000	44	0.000	68	0.000	92	0.000	116	0.000	140	0.000
21	0.000	45	0.000	69	0.000	93	0.000	117	0.000	141	0.000
22	0.000	46	0.000	70	0.000	94	0.000	118	0.000	142	0.000
23	0.000	47	0.000	71	0.000	95	0.000	119	0.000	143	0.000
24	0.000	48	0.000	72	0.000	96	0.000	120	0.000	144	0.000

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Surcharged Outfall Details for Storm

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
145	0.000	181	0.000	217	0.000	253	0.000	289	0.000	325	0.000
146	0.000	182	0.000	218	0.000	254	0.000	290	0.000	326	0.000
147	0.000	183	0.000	219	0.000	255	0.000	291	0.000	327	0.000
148	0.000	184	0.000	220	0.000	256	0.000	292	0.000	328	0.000
149	0.000	185	0.000	221	0.000	257	0.000	293	0.000	329	0.000
150	0.000	186	0.000	222	0.000	258	0.000	294	0.000	330	0.000
151	0.000	187	0.000	223	0.000	259	0.000	295	0.000	331	0.000
152	0.000	188	0.000	224	0.000	260	0.000	296	0.000	332	0.000
153	0.000	189	0.000	225	0.000	261	0.000	297	0.000	333	0.000
154	0.000	190	0.000	226	0.000	262	0.000	298	0.000	334	0.000
155	0.000	191	0.000	227	0.000	263	0.000	299	0.000	335	0.000
156	0.000	192	0.000	228	0.000	264	0.000	300	0.000	336	0.000
157	0.000	193	0.000	229	0.000	265	0.000	301	0.000	337	0.000
158	0.000	194	0.000	230	0.000	266	0.000	302	0.000	338	0.000
159	0.000	195	0.000	231	0.000	267	0.000	303	0.000	339	0.000
160	0.000	196	0.000	232	0.000	268	0.000	304	0.000	340	0.000
161	0.000	197	0.000	233	0.000	269	0.000	305	0.000	341	0.000
162	0.000	198	0.000	234	0.000	270	0.000	306	0.000	342	0.000
163	0.000	199	0.000	235	0.000	271	0.000	307	0.000	343	0.000
164	0.000	200	0.000	236	0.000	272	0.000	308	0.000	344	0.000
165	0.000	201	0.000	237	0.000	273	0.000	309	0.000	345	0.000
166	0.000	202	0.000	238	0.000	274	0.000	310	0.000	346	0.000
167	0.000	203	0.000	239	0.000	275	0.000	311	0.000	347	0.000
168	0.000	204	0.000	240	0.000	276	0.000	312	0.000	348	0.000
169	0.000	205	0.000	241	0.000	277	0.000	313	0.000	349	0.000
170	0.000	206	0.000	242	0.000	278	0.000	314	0.000	350	0.000
171	0.000	207	0.000	243	0.000	279	0.000	315	0.000	351	0.000
172	0.000	208	0.000	244	0.000	280	0.000	316	0.000	352	0.000
173	0.000	209	0.000	245	0.000	281	0.000	317	0.000	353	0.000
174	0.000	210	0.000	246	0.000	282	0.000	318	0.000	354	0.000
175	0.000	211	0.000	247	0.000	283	0.000	319	0.000	355	0.000
176	0.000	212	0.000	248	0.000	284	0.000	320	0.000	356	0.000
177	0.000	213	0.000	249	0.000	285	0.000	321	0.000	357	0.000
178	0.000	214	0.000	250	0.000	286	0.000	322	0.000	358	0.000
179	0.000	215	0.000	251	0.000	287	0.000	323	0.000	359	0.000
180	0.000	216	0.000	252	0.000	288	0.000	324	0.000	360	0.000

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Online Controls for Storm

Hydro-Brake® Optimum Manhole: S13, DS/PN: 1.007, Volume (m³): 18.1

Unit Reference	MD-SHE-0133-1120-2400-1120
Design Head (m)	2.400
Design Flow (l/s)	11.2
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	133
Invert Level (m)	53.710
Minimum Outlet Pipe Diameter (mm)	150
Suggested Manhole Diameter (mm)	1500

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	2.400	11.2
Flush-Flo™	0.577	10.2
Kick-Flo®	1.183	8.0
Mean Flow over Head Range	-	9.2

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	4.8	1.200	8.1	3.000	12.4	7.000	18.6
0.200	8.5	1.400	8.7	3.500	13.4	7.500	19.3
0.300	9.4	1.600	9.2	4.000	14.3	8.000	19.9
0.400	9.9	1.800	9.8	4.500	15.1	8.500	20.4
0.500	10.1	2.000	10.3	5.000	15.9	9.000	21.0
0.600	10.2	2.200	10.7	5.500	16.6	9.500	21.6
0.800	9.9	2.400	11.2	6.000	17.3		
1.000	9.3	2.600	11.6	6.500	18.0		

Summer 1 in 2 Year Storms 15 to 360 Minute Duration

Winter 1 in 2 Year Storms 15 to 360 Minute Duration

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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	2	56.441	-0.269	0.000	0.02		2.2	OK
1.001	S2	2	56.238	-0.232	0.000	0.12		11.8	OK
1.002	S3	2	55.974	-0.166	0.000	0.40		44.6	OK
1.003	S4	2	55.715	-0.115	0.000	0.69		45.7	OK
1.004	S5	2	55.640	-0.120	0.000	0.67		47.4	OK
1.005	Tank 1	14	54.381	-1.819	0.000	0.01		46.1	OK
1.006	S6	14	54.379	-0.167	0.000	0.40		45.0	OK
2.000	S7	2	56.595	-0.245	0.000	0.08		8.8	OK
2.001	S8	2	56.204	-0.206	0.000	0.21		26.5	OK
3.000	S9	2	55.797	-0.233	0.000	0.11		14.0	OK
2.002	S10	2	55.526	-0.124	0.000	0.65		40.6	OK
4.000	S11	2	55.672	-0.003	0.000	1.00		28.9	OK
2.003	Tank 2	14	54.309	-2.041	0.000	0.01		62.6	OK
2.004	S12	14	54.309	0.179	0.000	0.21		13.8	SURCHARGED
1.007	S13	14	54.321	0.311	0.000	0.14		10.1	SURCHARGED
1.008	S15	4	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	3	56.440	-0.270	0.000	0.02		2.1	OK
1.001	S2	3	56.237	-0.233	0.000	0.11		11.4	OK
1.002	S3	3	55.971	-0.169	0.000	0.39		43.5	OK
1.003	S4	3	55.711	-0.119	0.000	0.67		44.1	OK
1.004	S5	3	55.637	-0.123	0.000	0.65		46.0	OK
1.005	Tank 1	12	54.397	-1.803	0.000	0.01		44.9	OK
1.006	S6	12	54.397	-0.149	0.000	0.39		43.8	OK
2.000	S7	3	56.593	-0.247	0.000	0.07		8.3	OK
2.001	S8	3	56.201	-0.209	0.000	0.20		25.5	OK
3.000	S9	3	55.795	-0.235	0.000	0.11		13.2	OK
2.002	S10	3	55.521	-0.129	0.000	0.61		38.5	OK
4.000	S11	3	55.630	-0.045	0.000	1.00		28.9	OK
2.003	Tank 2	12	54.378	-1.972	0.000	0.01		61.3	OK
2.004	S12	12	54.378	0.248	0.000	0.13		8.9	SURCHARGED
1.007	S13	12	54.373	0.363	0.000	0.14		10.1	SURCHARGED
1.008	S15	13	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	5	56.434	-0.276	0.000	0.02		1.6	OK
1.001	S2	5	56.231	-0.239	0.000	0.09		9.4	OK
1.002	S3	5	55.958	-0.182	0.000	0.33		36.1	OK
1.003	S4	5	55.690	-0.140	0.000	0.55		36.7	OK
1.004	S5	5	55.617	-0.143	0.000	0.54		38.1	OK
1.005	Tank 1	10	54.426	-1.774	0.000	0.01		37.6	OK
1.006	S6	10	54.426	-0.120	0.000	0.33		36.5	OK
2.000	S7	5	56.586	-0.254	0.000	0.06		6.5	OK
2.001	S8	5	56.191	-0.219	0.000	0.16		20.9	OK
3.000	S9	5	55.788	-0.242	0.000	0.08		10.3	OK
2.002	S10	5	55.500	-0.150	0.000	0.50		31.2	OK
4.000	S11	5	55.600	-0.075	0.000	0.78		22.6	OK
2.003	Tank 2	9	54.425	-1.925	0.000	0.00		49.3	OK
2.004	S12	9	54.425	0.295	0.000	0.14		9.1	SURCHARGED
1.007	S13	10	54.421	0.411	0.000	0.14		10.1	SURCHARGED
1.008	S15	11	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	7	56.427	-0.283	0.000	0.01		1.1	OK
1.001	S2	7	56.221	-0.249	0.000	0.07		6.9	OK
1.002	S3	7	55.939	-0.201	0.000	0.24		26.4	OK
1.003	S4	7	55.662	-0.168	0.000	0.40		26.8	OK
1.004	S5	7	55.590	-0.170	0.000	0.39		27.8	OK
1.005	Tank 1	7	54.443	-1.757	0.000	0.01		27.6	OK
1.006	S6	7	54.443	-0.103	0.000	0.24		26.8	OK
2.000	S7	7	56.578	-0.262	0.000	0.04		4.6	OK
2.001	S8	7	56.179	-0.231	0.000	0.12		15.2	OK
3.000	S9	7	55.777	-0.253	0.000	0.06		7.3	OK
2.002	S10	7	55.474	-0.176	0.000	0.36		22.4	OK
4.000	S11	7	55.569	-0.106	0.000	0.55		15.9	OK
2.003	Tank 2	7	54.442	-1.908	0.000	0.00		35.5	OK
2.004	S12	7	54.443	0.313	0.000	0.14		9.4	SURCHARGED
1.007	S13	7	54.438	0.428	0.000	0.14		10.1	SURCHARGED
1.008	S15	7	53.427	-0.233	0.000	0.11		10.1	OK

Mitton Road Business Park
Mitton Road
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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	8	56.423	-0.287	0.000	0.01		0.9	OK
1.001	S2	8	56.215	-0.255	0.000	0.05		5.5	OK
1.002	S3	8	55.929	-0.211	0.000	0.19		21.2	OK
1.003	S4	8	55.647	-0.183	0.000	0.32		21.5	OK
1.004	S5	8	55.575	-0.185	0.000	0.32		22.3	OK
1.005	Tank 1	6	54.444	-1.756	0.000	0.01		22.1	OK
1.006	S6	6	54.445	-0.101	0.000	0.19		21.7	OK
2.000	S7	8	56.575	-0.265	0.000	0.03		3.6	OK
2.001	S8	8	56.172	-0.238	0.000	0.10		12.2	OK
3.000	S9	8	55.771	-0.259	0.000	0.05		5.8	OK
2.002	S10	8	55.459	-0.191	0.000	0.28		17.9	OK
4.000	S11	8	55.554	-0.121	0.000	0.44		12.6	OK
2.003	Tank 2	6	54.444	-1.906	0.000	0.00		28.4	OK
2.004	S12	5	54.444	0.314	0.000	0.14		9.3	SURCHARGED
1.007	S13	6	54.439	0.429	0.000	0.14		10.1	SURCHARGED
1.008	S15	6	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	10	56.421	-0.289	0.000	0.01		0.8	OK
1.001	S2	10	56.211	-0.259	0.000	0.05		4.7	OK
1.002	S3	10	55.920	-0.220	0.000	0.16		18.0	OK
1.003	S4	10	55.637	-0.193	0.000	0.28		18.2	OK
1.004	S5	10	55.565	-0.195	0.000	0.27		18.9	OK
1.005	Tank 1	8	54.440	-1.760	0.000	0.01		18.8	OK
1.006	S6	8	54.440	-0.106	0.000	0.17		18.5	OK
2.000	S7	10	56.572	-0.268	0.000	0.03		3.1	OK
2.001	S8	10	56.167	-0.243	0.000	0.08		10.3	OK
3.000	S9	10	55.768	-0.262	0.000	0.04		4.8	OK
2.002	S10	10	55.449	-0.201	0.000	0.24		15.1	OK
4.000	S11	10	55.544	-0.131	0.000	0.37		10.6	OK
2.003	Tank 2	8	54.439	-1.911	0.000	0.00		24.0	OK
2.004	S12	8	54.439	0.309	0.000	0.14		9.4	SURCHARGED
1.007	S13	8	54.436	0.426	0.000	0.14		10.1	SURCHARGED
1.008	S15	3	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	12	56.419	-0.291	0.000	0.01		0.6	OK
1.001	S2	12	56.206	-0.264	0.000	0.04		3.6	OK
1.002	S3	12	55.911	-0.229	0.000	0.13		14.0	OK
1.003	S4	12	55.624	-0.206	0.000	0.21		14.2	OK
1.004	S5	12	55.552	-0.208	0.000	0.21		14.8	OK
1.005	Tank 1	11	54.421	-1.779	0.000	0.00		14.7	OK
1.006	S6	11	54.421	-0.125	0.000	0.13		14.6	OK
2.000	S7	12	56.569	-0.271	0.000	0.02		2.4	OK
2.001	S8	12	56.159	-0.251	0.000	0.06		8.0	OK
3.000	S9	12	55.764	-0.266	0.000	0.03		3.7	OK
2.002	S10	12	55.437	-0.213	0.000	0.19		11.7	OK
4.000	S11	12	55.531	-0.144	0.000	0.28		8.2	OK
2.003	Tank 2	11	54.420	-1.930	0.000	0.00		18.7	OK
2.004	S12	11	54.421	0.291	0.000	0.14		9.1	SURCHARGED
1.007	S13	9	54.426	0.416	0.000	0.14		10.1	SURCHARGED
1.008	S15	1	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	1	56.441	-0.269	0.000	0.02		2.3	OK
1.001	S2	1	56.240	-0.230	0.000	0.12		12.5	OK
1.002	S3	1	55.978	-0.162	0.000	0.43		47.5	OK
1.003	S4	1	55.721	-0.109	0.000	0.73		48.3	OK
1.004	S5	1	55.646	-0.114	0.000	0.70		49.9	OK
1.005	Tank 1	13	54.392	-1.808	0.000	0.02		49.2	OK
1.006	S6	13	54.392	-0.154	0.000	0.43		47.8	OK
2.000	S7	1	56.597	-0.243	0.000	0.08		9.1	OK
2.001	S8	1	56.206	-0.204	0.000	0.22		28.1	OK
3.000	S9	1	55.799	-0.231	0.000	0.12		14.7	OK
2.002	S10	1	55.532	-0.118	0.000	0.68		42.7	OK
4.000	S11	1	55.692	0.017	0.000	1.06		30.6	SURCHARGED
2.003	Tank 2	13	54.345	-2.005	0.000	0.01		65.6	OK
2.004	S12	13	54.345	0.215	0.000	0.24		16.1	SURCHARGED
1.007	S13	13	54.355	0.345	0.000	0.14		10.1	SURCHARGED
1.008	S15	2	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	4	56.438	-0.272	0.000	0.02		1.9	OK
1.001	S2	4	56.235	-0.235	0.000	0.11		10.9	OK
1.002	S3	4	55.968	-0.172	0.000	0.38		41.9	OK
1.003	S4	4	55.705	-0.125	0.000	0.64		42.5	OK
1.004	S5	4	55.631	-0.129	0.000	0.62		44.1	OK
1.005	Tank 1	9	54.436	-1.764	0.000	0.01		43.5	OK
1.006	S6	9	54.436	-0.110	0.000	0.37		41.4	OK
2.000	S7	4	56.590	-0.250	0.000	0.07		7.5	OK
2.001	S8	4	56.199	-0.211	0.000	0.19		24.3	OK
3.000	S9	4	55.792	-0.238	0.000	0.10		12.0	OK
2.002	S10	4	55.513	-0.137	0.000	0.57		36.1	OK
4.000	S11	4	55.617	-0.058	0.000	0.90		26.2	OK
2.003	Tank 2	10	54.424	-1.926	0.000	0.01		56.9	OK
2.004	S12	10	54.424	0.294	0.000	0.14		9.3	SURCHARGED
1.007	S13	11	54.419	0.409	0.000	0.14		10.1	SURCHARGED
1.008	S15	14	53.427	-0.233	0.000	0.11		10.0	OK

Mitton Road Business Park
Mitton Road
Clitheroe

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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	6	56.429	-0.281	0.000	0.01		1.3	OK
1.001	S2	6	56.226	-0.244	0.000	0.08		8.0	OK
1.002	S3	6	55.947	-0.193	0.000	0.28		30.8	OK
1.003	S4	6	55.675	-0.155	0.000	0.47		31.2	OK
1.004	S5	6	55.602	-0.158	0.000	0.46		32.4	OK
1.005	Tank 1	4	54.487	-1.713	0.000	0.01		31.7	OK
1.006	S6	4	54.487	-0.059	0.000	0.27		30.2	OK
2.000	S7	6	56.581	-0.259	0.000	0.05		5.3	OK
2.001	S8	6	56.184	-0.226	0.000	0.14		17.6	OK
3.000	S9	6	55.781	-0.249	0.000	0.07		8.4	OK
2.002	S10	6	55.484	-0.166	0.000	0.41		25.9	OK
4.000	S11	6	55.580	-0.095	0.000	0.63		18.3	OK
2.003	Tank 2	4	54.486	-1.864	0.000	0.00		41.1	OK
2.004	S12	4	54.486	0.356	0.000	0.13		8.9	SURCHARGED
1.007	S13	4	54.481	0.471	0.000	0.14		10.1	SURCHARGED
1.008	S15	12	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	9	56.423	-0.287	0.000	0.01		0.9	OK
1.001	S2	9	56.214	-0.256	0.000	0.05		5.3	OK
1.002	S3	9	55.927	-0.213	0.000	0.19		20.6	OK
1.003	S4	9	55.645	-0.185	0.000	0.32		20.9	OK
1.004	S5	9	55.573	-0.187	0.000	0.31		21.7	OK
1.005	Tank 1	1	54.506	-1.694	0.000	0.01		21.2	OK
1.006	S6	1	54.506	-0.040	0.000	0.18		20.4	OK
2.000	S7	9	56.574	-0.266	0.000	0.03		3.5	OK
2.001	S8	9	56.171	-0.239	0.000	0.09		11.8	OK
3.000	S9	9	55.770	-0.260	0.000	0.04		5.5	OK
2.002	S10	9	55.456	-0.194	0.000	0.27		17.2	OK
4.000	S11	9	55.551	-0.124	0.000	0.42		12.0	OK
2.003	Tank 2	1	54.506	-1.844	0.000	0.00		27.5	OK
2.004	S12	1	54.506	0.376	0.000	0.14		9.4	SURCHARGED
1.007	S13	1	54.501	0.491	0.000	0.14		10.1	SURCHARGED
1.008	S15	9	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	11	56.420	-0.290	0.000	0.01		0.7	OK
1.001	S2	11	56.209	-0.261	0.000	0.04		4.1	OK
1.002	S3	11	55.916	-0.224	0.000	0.14		16.0	OK
1.003	S4	11	55.630	-0.200	0.000	0.24		16.2	OK
1.004	S5	11	55.559	-0.201	0.000	0.24		16.9	OK
1.005	Tank 1	2	54.503	-1.697	0.000	0.01		16.4	OK
1.006	S6	2	54.503	-0.043	0.000	0.14		16.0	OK
2.000	S7	11	56.571	-0.269	0.000	0.02		2.7	OK
2.001	S8	11	56.162	-0.248	0.000	0.07		9.1	OK
3.000	S9	11	55.766	-0.264	0.000	0.03		4.2	OK
2.002	S10	11	55.443	-0.207	0.000	0.21		13.4	OK
4.000	S11	11	55.537	-0.138	0.000	0.32		9.3	OK
2.003	Tank 2	2	54.502	-1.848	0.000	0.00		21.4	OK
2.004	S12	2	54.502	0.372	0.000	0.14		9.4	SURCHARGED
1.007	S13	2	54.498	0.488	0.000	0.14		10.1	SURCHARGED
1.008	S15	8	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	13	56.418	-0.292	0.000	0.01		0.6	OK
1.001	S2	13	56.206	-0.264	0.000	0.03		3.4	OK
1.002	S3	13	55.909	-0.231	0.000	0.12		13.3	OK
1.003	S4	13	55.621	-0.209	0.000	0.20		13.5	OK
1.004	S5	13	55.550	-0.210	0.000	0.20		14.0	OK
1.005	Tank 1	3	54.490	-1.710	0.000	0.00		13.7	OK
1.006	S6	3	54.490	-0.056	0.000	0.12		13.5	OK
2.000	S7	13	56.568	-0.272	0.000	0.02		2.2	OK
2.001	S8	13	56.157	-0.253	0.000	0.06		7.6	OK
3.000	S9	13	55.763	-0.267	0.000	0.03		3.5	OK
2.002	S10	13	55.434	-0.216	0.000	0.18		11.1	OK
4.000	S11	13	55.529	-0.146	0.000	0.27		7.7	OK
2.003	Tank 2	3	54.490	-1.860	0.000	0.00		17.9	OK
2.004	S12	3	54.490	0.360	0.000	0.14		9.4	SURCHARGED
1.007	S13	3	54.485	0.475	0.000	0.14		10.1	SURCHARGED
1.008	S15	10	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	2
Climate Change (%)	0

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	2400	14	56.416	-0.294	0.000	0.00		0.4	OK
1.001	S2	14	56.202	-0.268	0.000	0.03		2.6	OK
1.002	S3	14	55.901	-0.239	0.000	0.09		10.2	OK
1.003	S4	14	55.609	-0.221	0.000	0.16		10.4	OK
1.004	S5	14	55.538	-0.222	0.000	0.15		10.8	OK
1.005	Tank 1	5	54.445	-1.755	0.000	0.00		10.7	OK
1.006	S6	5	54.445	-0.101	0.000	0.10		10.6	OK
2.000	S7	14	56.561	-0.279	0.000	0.01		1.7	OK
2.001	S8	14	56.151	-0.259	0.000	0.05		5.8	OK
3.000	S9	14	55.760	-0.270	0.000	0.02		2.7	OK
2.002	S10	14	55.423	-0.227	0.000	0.14		8.5	OK
4.000	S11	14	55.519	-0.156	0.000	0.20		5.9	OK
2.003	Tank 2	5	54.444	-1.906	0.000	0.00		13.8	OK
2.004	S12	6	54.444	0.314	0.000	0.14		9.4	SURCHARGED
1.007	S13	5	54.440	0.430	0.000	0.14		10.1	SURCHARGED
1.008	S15	5	53.427	-0.233	0.000	0.11		10.1	OK

Summer 1 in 30 Year Storms 15 to 360 Minute Duration

Winter 1 in 30 Year Storms 15 to 360 Minute Duration

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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	2	56.450	-0.260	0.000	0.04		4.2	OK
1.001	S2	2	56.278	-0.192	0.000	0.28		28.3	OK
1.002	S3	2	56.214	0.074	0.000	0.87		96.8	SURCHARGED
1.003	S4	2	55.981	0.151	0.000	1.46		97.0	SURCHARGED
1.004	S5	2	55.829	0.069	0.000	1.41		100.0	SURCHARGED
1.005	Tank 1	14	54.639	-1.561	0.000	0.03		93.7	OK
1.006	S6	14	54.639	0.093	0.000	0.53		59.1	SURCHARGED
2.000	S7	2	56.616	-0.224	0.000	0.14		16.6	OK
2.001	S8	2	56.258	-0.152	0.000	0.47		60.4	OK
3.000	S9	2	55.824	-0.206	0.000	0.21		26.6	OK
2.002	S10	2	55.695	0.045	0.000	1.38		96.9	SURCHARGED
4.000	S11	2	55.817	0.142	0.000	1.99		57.6	SURCHARGED
2.003	Tank 2	14	54.552	-1.798	0.000	0.01		132.4	OK
2.004	S12	14	54.552	0.422	0.000	0.19		12.5	SURCHARGED
1.007	S13	14	54.568	0.558	0.000	0.14		9.9	SURCHARGED
1.008	S15	13	53.427	-0.233	0.000	0.11		9.5	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	3	56.449	-0.261	0.000	0.04		4.0	OK
1.001	S2	3	56.273	-0.197	0.000	0.25		25.6	OK
1.002	S3	3	56.162	0.022	0.000	0.82		91.2	SURCHARGED
1.003	S4	3	55.947	0.117	0.000	1.39		92.1	SURCHARGED
1.004	S5	3	55.811	0.051	0.000	1.35		95.4	SURCHARGED
1.005	Tank 1	12	54.701	-1.499	0.000	0.03		88.1	OK
1.006	S6	12	54.701	0.155	0.000	0.45		50.3	SURCHARGED
2.000	S7	3	56.614	-0.226	0.000	0.14		15.9	OK
2.001	S8	3	56.250	-0.160	0.000	0.44		55.8	OK
3.000	S9	3	55.821	-0.209	0.000	0.20		25.2	OK
2.002	S10	3	55.676	0.026	0.000	1.27		79.9	SURCHARGED
4.000	S11	3	55.797	0.122	0.000	1.90		55.0	SURCHARGED
2.003	Tank 2	12	54.695	-1.655	0.000	0.01		126.7	OK
2.004	S12	12	54.695	0.565	0.000	0.15		10.0	SURCHARGED
1.007	S13	12	54.690	0.680	0.000	0.14		10.1	SURCHARGED
1.008	S15	12	53.427	-0.233	0.000	0.11		9.9	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	5	56.445	-0.265	0.000	0.03		3.1	OK
1.001	S2	5	56.260	-0.210	0.000	0.19		19.6	OK
1.002	S3	5	56.025	-0.115	0.000	0.69		76.1	OK
1.003	S4	5	55.860	0.030	0.000	1.15		76.3	SURCHARGED
1.004	S5	5	55.767	0.007	0.000	1.11		78.9	SURCHARGED
1.005	Tank 1	10	54.826	-1.374	0.000	0.02		74.0	OK
1.006	S6	10	54.826	0.280	0.000	0.35		39.1	SURCHARGED
2.000	S7	5	56.605	-0.235	0.000	0.11		12.4	OK
2.001	S8	5	56.231	-0.179	0.000	0.34		42.9	OK
3.000	S9	5	55.809	-0.221	0.000	0.16		19.7	OK
2.002	S10	5	55.589	-0.061	0.000	0.99		62.1	OK
4.000	S11	5	55.737	0.062	0.000	1.49		43.0	SURCHARGED
2.003	Tank 2	10	54.824	-1.526	0.000	0.01		99.2	OK
2.004	S12	10	54.824	0.694	0.000	0.12		7.6	SURCHARGED
1.007	S13	10	54.827	0.817	0.000	0.14		10.1	SURCHARGED
1.008	S15	10	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	7	56.441	-0.269	0.000	0.02		2.2	OK
1.001	S2	7	56.242	-0.228	0.000	0.13		13.5	OK
1.002	S3	7	55.985	-0.155	0.000	0.47		52.3	OK
1.003	S4	7	55.734	-0.096	0.000	0.80		53.1	OK
1.004	S5	7	55.659	-0.101	0.000	0.78		55.1	OK
1.005	Tank 1	8	54.921	-1.279	0.000	0.02		51.5	OK
1.006	S6	8	54.921	0.375	0.000	0.25		27.6	SURCHARGED
2.000	S7	7	56.594	-0.246	0.000	0.07		8.6	OK
2.001	S8	7	56.208	-0.202	0.000	0.23		29.6	OK
3.000	S9	7	55.796	-0.234	0.000	0.11		13.6	OK
2.002	S10	7	55.533	-0.117	0.000	0.69		43.2	OK
4.000	S11	7	55.656	-0.019	0.000	1.00		28.9	OK
2.003	Tank 2	8	54.920	-1.430	0.000	0.01		68.4	OK
2.004	S12	8	54.920	0.790	0.000	0.10		6.4	SURCHARGED
1.007	S13	9	54.909	0.899	0.000	0.14		10.1	SURCHARGED
1.008	S15	8	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	8	56.435	-0.275	0.000	0.02		1.7	OK
1.001	S2	8	56.234	-0.236	0.000	0.10		10.5	OK
1.002	S3	8	55.966	-0.174	0.000	0.37		40.6	OK
1.003	S4	8	55.702	-0.128	0.000	0.62		41.3	OK
1.004	S5	8	55.628	-0.132	0.000	0.61		42.9	OK
1.005	Tank 1	5	54.942	-1.258	0.000	0.01		40.1	OK
1.006	S6	5	54.942	0.396	0.000	0.20		22.7	SURCHARGED
2.000	S7	8	56.587	-0.253	0.000	0.06		6.7	OK
2.001	S8	8	56.196	-0.214	0.000	0.18		23.1	OK
3.000	S9	8	55.789	-0.241	0.000	0.09		10.7	OK
2.002	S10	8	55.506	-0.144	0.000	0.54		33.7	OK
4.000	S11	8	55.604	-0.071	0.000	0.81		23.3	OK
2.003	Tank 2	5	54.942	-1.408	0.000	0.00		54.0	OK
2.004	S12	5	54.942	0.812	0.000	0.10		6.5	SURCHARGED
1.007	S13	5	54.945	0.935	0.000	0.14		10.1	SURCHARGED
1.008	S15	6	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	10	56.430	-0.280	0.000	0.01		1.4	OK
1.001	S2	10	56.229	-0.241	0.000	0.09		8.7	OK
1.002	S3	10	55.953	-0.187	0.000	0.30		33.6	OK
1.003	S4	10	55.683	-0.147	0.000	0.51		34.1	OK
1.004	S5	10	55.610	-0.150	0.000	0.50		35.4	OK
1.005	Tank 1	6	54.934	-1.266	0.000	0.01		33.1	OK
1.006	S6	6	54.934	0.388	0.000	0.18		20.1	SURCHARGED
2.000	S7	10	56.582	-0.258	0.000	0.05		5.6	OK
2.001	S8	10	56.187	-0.223	0.000	0.15		19.1	OK
3.000	S9	10	55.782	-0.248	0.000	0.07		8.8	OK
2.002	S10	10	55.490	-0.160	0.000	0.44		27.9	OK
4.000	S11	10	55.585	-0.090	0.000	0.67		19.3	OK
2.003	Tank 2	6	54.935	-1.415	0.000	0.00		44.8	OK
2.004	S12	6	54.935	0.805	0.000	0.13		8.3	SURCHARGED
1.007	S13	6	54.938	0.928	0.000	0.14		10.1	SURCHARGED
1.008	S15	5	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	12	56.426	-0.284	0.000	0.01		1.1	OK
1.001	S2	12	56.219	-0.251	0.000	0.06		6.6	OK
1.002	S3	12	55.937	-0.203	0.000	0.23		25.4	OK
1.003	S4	12	55.659	-0.171	0.000	0.39		25.7	OK
1.004	S5	12	55.587	-0.173	0.000	0.38		26.7	OK
1.005	Tank 1	9	54.916	-1.284	0.000	0.01		25.1	OK
1.006	S6	9	54.916	0.370	0.000	0.15		16.9	SURCHARGED
2.000	S7	12	56.577	-0.263	0.000	0.04		4.2	OK
2.001	S8	12	56.177	-0.233	0.000	0.11		14.5	OK
3.000	S9	12	55.775	-0.255	0.000	0.05		6.7	OK
2.002	S10	12	55.470	-0.180	0.000	0.34		21.1	OK
4.000	S11	12	55.563	-0.112	0.000	0.51		14.7	OK
2.003	Tank 2	9	54.917	-1.433	0.000	0.00		34.1	OK
2.004	S12	9	54.917	0.787	0.000	0.14		9.4	SURCHARGED
1.007	S13	7	54.921	0.911	0.000	0.14		10.1	SURCHARGED
1.008	S15	2	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	1	56.451	-0.259	0.000	0.05		4.4	OK
1.001	S2	1	56.280	-0.190	0.000	0.28		28.5	OK
1.002	S3	1	56.228	0.088	0.000	0.88		97.9	SURCHARGED
1.003	S4	1	55.989	0.159	0.000	1.48		98.0	SURCHARGED
1.004	S5	1	55.833	0.073	0.000	1.43		101.4	SURCHARGED
1.005	Tank 1	13	54.691	-1.509	0.000	0.03		95.2	OK
1.006	S6	13	54.690	0.144	0.000	0.54		60.2	SURCHARGED
2.000	S7	1	56.618	-0.222	0.000	0.15		17.4	OK
2.001	S8	1	56.259	-0.151	0.000	0.48		61.3	OK
3.000	S9	1	55.827	-0.203	0.000	0.22		27.8	OK
2.002	S10	1	55.700	0.050	0.000	1.42		89.1	SURCHARGED
4.000	S11	1	55.835	0.160	0.000	2.08		60.2	SURCHARGED
2.003	Tank 2	13	54.609	-1.741	0.000	0.01		138.1	OK
2.004	S12	13	54.609	0.479	0.000	0.21		14.2	SURCHARGED
1.007	S13	13	54.629	0.619	0.000	0.14		9.9	SURCHARGED
1.008	S15	14	53.426	-0.234	0.000	0.11		9.5	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	4	56.447	-0.263	0.000	0.04		3.6	OK
1.001	S2	4	56.266	-0.204	0.000	0.22		22.6	OK
1.002	S3	4	56.085	-0.055	0.000	0.76		84.1	OK
1.003	S4	4	55.905	0.075	0.000	1.28		85.0	SURCHARGED
1.004	S5	4	55.789	0.029	0.000	1.24		88.2	SURCHARGED
1.005	Tank 1	11	54.778	-1.422	0.000	0.03		82.4	OK
1.006	S6	11	54.778	0.232	0.000	0.44		48.8	SURCHARGED
2.000	S7	4	56.610	-0.230	0.000	0.13		14.4	OK
2.001	S8	4	56.240	-0.170	0.000	0.39		49.5	OK
3.000	S9	4	55.816	-0.214	0.000	0.18		22.8	OK
2.002	S10	4	55.656	0.006	0.000	1.13		71.3	SURCHARGED
4.000	S11	4	55.769	0.094	0.000	1.72		49.8	SURCHARGED
2.003	Tank 2	11	54.770	-1.580	0.000	0.01		114.4	OK
2.004	S12	11	54.770	0.640	0.000	0.16		10.7	SURCHARGED
1.007	S13	11	54.766	0.756	0.000	0.14		10.1	SURCHARGED
1.008	S15	11	53.427	-0.233	0.000	0.11		9.9	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	6	56.442	-0.268	0.000	0.03		2.5	OK
1.001	S2	6	56.248	-0.222	0.000	0.15		15.6	OK
1.002	S3	6	55.999	-0.141	0.000	0.55		60.6	OK
1.003	S4	6	55.757	-0.073	0.000	0.93		61.5	OK
1.004	S5	6	55.682	-0.078	0.000	0.90		63.8	OK
1.005	Tank 1	7	54.931	-1.269	0.000	0.02		59.8	OK
1.006	S6	7	54.931	0.385	0.000	0.32		36.0	SURCHARGED
2.000	S7	6	56.600	-0.240	0.000	0.09		10.0	OK
2.001	S8	6	56.216	-0.194	0.000	0.27		34.4	OK
3.000	S9	6	55.801	-0.229	0.000	0.13		15.9	OK
2.002	S10	6	55.554	-0.096	0.000	0.80		50.2	OK
4.000	S11	6	55.705	0.030	0.000	1.20		34.8	SURCHARGED
2.003	Tank 2	7	54.927	-1.423	0.000	0.01		80.4	OK
2.004	S12	7	54.927	0.797	0.000	0.13		8.7	SURCHARGED
1.007	S13	8	54.919	0.909	0.000	0.14		10.1	SURCHARGED
1.008	S15	9	53.427	-0.233	0.000	0.11		10.1	OK

Mitton Road Business Park
Mitton Road
Clitheroe

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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	9	56.434	-0.276	0.000	0.02		1.6	OK
1.001	S2	9	56.233	-0.237	0.000	0.10		10.1	OK
1.002	S3	9	55.963	-0.177	0.000	0.35		39.2	OK
1.003	S4	9	55.698	-0.132	0.000	0.60		39.8	OK
1.004	S5	9	55.625	-0.135	0.000	0.58		41.3	OK
1.005	Tank 1	4	55.052	-1.148	0.000	0.01		38.7	OK
1.006	S6	4	55.052	0.506	0.000	0.21		24.0	SURCHARGED
2.000	S7	9	56.586	-0.254	0.000	0.06		6.5	OK
2.001	S8	9	56.194	-0.216	0.000	0.17		22.3	OK
3.000	S9	9	55.788	-0.242	0.000	0.08		10.3	OK
2.002	S10	9	55.503	-0.147	0.000	0.52		32.6	OK
4.000	S11	9	55.600	-0.075	0.000	0.78		22.6	OK
2.003	Tank 2	4	55.051	-1.299	0.000	0.00		52.5	OK
2.004	S12	4	55.051	0.921	0.000	0.10		6.4	SURCHARGED
1.007	S13	4	55.040	1.030	0.000	0.14		10.1	SURCHARGED
1.008	S15	7	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	11	56.428	-0.282	0.000	0.01		1.2	OK
1.001	S2	11	56.224	-0.246	0.000	0.08		7.7	OK
1.002	S3	11	55.945	-0.195	0.000	0.27		29.8	OK
1.003	S4	11	55.672	-0.158	0.000	0.46		30.3	OK
1.004	S5	11	55.599	-0.161	0.000	0.44		31.4	OK
1.005	Tank 1	1	55.085	-1.115	0.000	0.01		29.4	OK
1.006	S6	1	55.085	0.539	0.000	0.17		19.4	SURCHARGED
2.000	S7	11	56.580	-0.260	0.000	0.04		5.0	OK
2.001	S8	11	56.182	-0.228	0.000	0.13		17.0	OK
3.000	S9	11	55.779	-0.251	0.000	0.06		7.9	OK
2.002	S10	11	55.481	-0.169	0.000	0.39		24.8	OK
4.000	S11	11	55.575	-0.100	0.000	0.59		17.2	OK
2.003	Tank 2	1	55.085	-1.265	0.000	0.00		40.1	OK
2.004	S12	1	55.085	0.955	0.000	0.10		6.4	SURCHARGED
1.007	S13	2	55.073	1.063	0.000	0.14		10.1	SURCHARGED
1.008	S15	4	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	13	56.425	-0.285	0.000	0.01		1.0	OK
1.001	S2	13	56.218	-0.252	0.000	0.06		6.3	OK
1.002	S3	13	55.935	-0.205	0.000	0.22		24.4	OK
1.003	S4	13	55.657	-0.173	0.000	0.37		24.7	OK
1.004	S5	13	55.585	-0.175	0.000	0.36		25.7	OK
1.005	Tank 1	2	55.085	-1.115	0.000	0.01		24.1	OK
1.006	S6	2	55.085	0.539	0.000	0.15		17.0	SURCHARGED
2.000	S7	13	56.576	-0.264	0.000	0.04		4.1	OK
2.001	S8	13	56.176	-0.234	0.000	0.11		13.9	OK
3.000	S9	13	55.774	-0.256	0.000	0.05		6.4	OK
2.002	S10	13	55.467	-0.183	0.000	0.32		20.3	OK
4.000	S11	13	55.561	-0.114	0.000	0.49		14.1	OK
2.003	Tank 2	2	55.085	-1.265	0.000	0.00		32.8	OK
2.004	S12	2	55.085	0.955	0.000	0.10		6.4	SURCHARGED
1.007	S13	1	55.089	1.079	0.000	0.14		10.1	SURCHARGED
1.008	S15	3	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	14	56.421	-0.289	0.000	0.01		0.8	OK
1.001	S2	14	56.211	-0.259	0.000	0.05		4.7	OK
1.002	S3	14	55.921	-0.219	0.000	0.17		18.4	OK
1.003	S4	14	55.638	-0.192	0.000	0.28		18.6	OK
1.004	S5	14	55.566	-0.194	0.000	0.27		19.3	OK
1.005	Tank 1	3	55.053	-1.147	0.000	0.01		18.2	OK
1.006	S6	3	55.053	0.507	0.000	0.13		14.0	SURCHARGED
2.000	S7	14	56.572	-0.268	0.000	0.03		3.1	OK
2.001	S8	14	56.167	-0.243	0.000	0.08		10.5	OK
3.000	S9	14	55.768	-0.262	0.000	0.04		4.8	OK
2.002	S10	14	55.450	-0.200	0.000	0.24		15.3	OK
4.000	S11	14	55.544	-0.131	0.000	0.37		10.6	OK
2.003	Tank 2	3	55.053	-1.297	0.000	0.00		24.8	OK
2.004	S12	3	55.053	0.923	0.000	0.14		9.4	SURCHARGED
1.007	S13	3	55.057	1.047	0.000	0.14		10.1	SURCHARGED
1.008	S15	1	53.427	-0.233	0.000	0.11		10.1	OK

Summer 1 in 30 Yr Storms +1m Surcharge 15 to 360 Min Duration

Winter 1 in 30 Yr Storms +1m Surcharge 15 to 360 Min Duration

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Surcharged Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.008	S15 Outfall	53.350	52.450	0.000	0	0

Datum (m) 52.450 Offset (mins) 0

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
1	1.000	42	1.000	83	1.000	124	1.000	165	1.000	206	1.000
2	1.000	43	1.000	84	1.000	125	1.000	166	1.000	207	1.000
3	1.000	44	1.000	85	1.000	126	1.000	167	1.000	208	1.000
4	1.000	45	1.000	86	1.000	127	1.000	168	1.000	209	1.000
5	1.000	46	1.000	87	1.000	128	1.000	169	1.000	210	1.000
6	1.000	47	1.000	88	1.000	129	1.000	170	1.000	211	1.000
7	1.000	48	1.000	89	1.000	130	1.000	171	1.000	212	1.000
8	1.000	49	1.000	90	1.000	131	1.000	172	1.000	213	1.000
9	1.000	50	1.000	91	1.000	132	1.000	173	1.000	214	1.000
10	1.000	51	1.000	92	1.000	133	1.000	174	1.000	215	1.000
11	1.000	52	1.000	93	1.000	134	1.000	175	1.000	216	1.000
12	1.000	53	1.000	94	1.000	135	1.000	176	1.000	217	1.000
13	1.000	54	1.000	95	1.000	136	1.000	177	1.000	218	1.000
14	1.000	55	1.000	96	1.000	137	1.000	178	1.000	219	1.000
15	1.000	56	1.000	97	1.000	138	1.000	179	1.000	220	1.000
16	1.000	57	1.000	98	1.000	139	1.000	180	1.000	221	1.000
17	1.000	58	1.000	99	1.000	140	1.000	181	1.000	222	1.000
18	1.000	59	1.000	100	1.000	141	1.000	182	1.000	223	1.000
19	1.000	60	1.000	101	1.000	142	1.000	183	1.000	224	1.000
20	1.000	61	1.000	102	1.000	143	1.000	184	1.000	225	1.000
21	1.000	62	1.000	103	1.000	144	1.000	185	1.000	226	1.000
22	1.000	63	1.000	104	1.000	145	1.000	186	1.000	227	1.000
23	1.000	64	1.000	105	1.000	146	1.000	187	1.000	228	1.000
24	1.000	65	1.000	106	1.000	147	1.000	188	1.000	229	1.000
25	1.000	66	1.000	107	1.000	148	1.000	189	1.000	230	1.000
26	1.000	67	1.000	108	1.000	149	1.000	190	1.000	231	1.000
27	1.000	68	1.000	109	1.000	150	1.000	191	1.000	232	1.000
28	1.000	69	1.000	110	1.000	151	1.000	192	1.000	233	1.000
29	1.000	70	1.000	111	1.000	152	1.000	193	1.000	234	1.000
30	1.000	71	1.000	112	1.000	153	1.000	194	1.000	235	1.000
31	1.000	72	1.000	113	1.000	154	1.000	195	1.000	236	1.000
32	1.000	73	1.000	114	1.000	155	1.000	196	1.000	237	1.000
33	1.000	74	1.000	115	1.000	156	1.000	197	1.000	238	1.000
34	1.000	75	1.000	116	1.000	157	1.000	198	1.000	239	1.000
35	1.000	76	1.000	117	1.000	158	1.000	199	1.000	240	1.000
36	1.000	77	1.000	118	1.000	159	1.000	200	1.000	241	1.000
37	1.000	78	1.000	119	1.000	160	1.000	201	1.000	242	1.000
38	1.000	79	1.000	120	1.000	161	1.000	202	1.000	243	1.000
39	1.000	80	1.000	121	1.000	162	1.000	203	1.000	244	1.000
40	1.000	81	1.000	122	1.000	163	1.000	204	1.000	245	1.000
41	1.000	82	1.000	123	1.000	164	1.000	205	1.000	246	1.000

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Surcharged Outfall Details for Storm

Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)	Time (mins)	Depth (m)
247	1.000	266	1.000	285	1.000	304	1.000	323	1.000	342	1.000
248	1.000	267	1.000	286	1.000	305	1.000	324	1.000	343	1.000
249	1.000	268	1.000	287	1.000	306	1.000	325	1.000	344	1.000
250	1.000	269	1.000	288	1.000	307	1.000	326	1.000	345	1.000
251	1.000	270	1.000	289	1.000	308	1.000	327	1.000	346	1.000
252	1.000	271	1.000	290	1.000	309	1.000	328	1.000	347	1.000
253	1.000	272	1.000	291	1.000	310	1.000	329	1.000	348	1.000
254	1.000	273	1.000	292	1.000	311	1.000	330	1.000	349	1.000
255	1.000	274	1.000	293	1.000	312	1.000	331	1.000	350	1.000
256	1.000	275	1.000	294	1.000	313	1.000	332	1.000	351	1.000
257	1.000	276	1.000	295	1.000	314	1.000	333	1.000	352	1.000
258	1.000	277	1.000	296	1.000	315	1.000	334	1.000	353	1.000
259	1.000	278	1.000	297	1.000	316	1.000	335	1.000	354	1.000
260	1.000	279	1.000	298	1.000	317	1.000	336	1.000	355	1.000
261	1.000	280	1.000	299	1.000	318	1.000	337	1.000	356	1.000
262	1.000	281	1.000	300	1.000	319	1.000	338	1.000	357	1.000
263	1.000	282	1.000	301	1.000	320	1.000	339	1.000	358	1.000
264	1.000	283	1.000	302	1.000	321	1.000	340	1.000	359	1.000
265	1.000	284	1.000	303	1.000	322	1.000	341	1.000	360	1.000

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Micro Drainage	Network 2017.1.2

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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model		FSR Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	2	56.450	-0.260	0.000	0.04		4.2	OK
1.001	S2	2	56.278	-0.192	0.000	0.28		28.3	OK
1.002	S3	2	56.214	0.074	0.000	0.87		96.8	SURCHARGED
1.003	S4	2	55.981	0.151	0.000	1.46		97.0	SURCHARGED
1.004	S5	2	55.829	0.069	0.000	1.41		100.0	SURCHARGED
1.005	Tank 1	14	54.639	-1.561	0.000	0.03		93.7	OK
1.006	S6	14	54.639	0.093	0.000	0.53		59.1	SURCHARGED
2.000	S7	2	56.616	-0.224	0.000	0.14		16.6	OK
2.001	S8	2	56.258	-0.152	0.000	0.47		60.4	OK
3.000	S9	2	55.824	-0.206	0.000	0.21		26.6	OK
2.002	S10	2	55.695	0.045	0.000	1.38		86.9	SURCHARGED
4.000	S11	2	55.817	0.142	0.000	1.99		57.6	SURCHARGED
2.003	Tank 2	14	54.551	-1.799	0.000	0.01		132.4	OK
2.004	S12	14	54.552	0.422	0.000	0.19		12.5	SURCHARGED
1.007	S13	14	54.568	0.558	0.000	0.14		10.0	SURCHARGED
1.008	S15	13	53.474	-0.186	0.000	0.11		9.8	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	2400	3	56.449	-0.261	0.000	0.04		4.0	OK
1.001	S2	3	56.273	-0.197	0.000	0.25		25.6	OK
1.002	S3	3	56.162	0.022	0.000	0.82		91.2	SURCHARGED
1.003	S4	3	55.947	0.117	0.000	1.39		92.1	SURCHARGED
1.004	S5	3	55.811	0.051	0.000	1.35		95.4	SURCHARGED
1.005	Tank 1	12	54.701	-1.499	0.000	0.03		88.1	OK
1.006	S6	12	54.701	0.155	0.000	0.45		50.3	SURCHARGED
2.000	S7	3	56.614	-0.226	0.000	0.14		15.9	OK
2.001	S8	3	56.250	-0.160	0.000	0.44		55.8	OK
3.000	S9	3	55.821	-0.209	0.000	0.20		25.2	OK
2.002	S10	3	55.676	0.026	0.000	1.27		79.9	SURCHARGED
4.000	S11	3	55.797	0.122	0.000	1.90		55.0	SURCHARGED
2.003	Tank 2	12	54.694	-1.656	0.000	0.01		126.7	OK
2.004	S12	12	54.694	0.564	0.000	0.15		10.0	SURCHARGED
1.007	S13	12	54.691	0.681	0.000	0.14		10.1	SURCHARGED
1.008	S15	12	53.474	-0.186	0.000	0.11		10.0	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	2400	5	56.445	-0.265	0.000	0.03		3.1	OK
1.001	S2	5	56.260	-0.210	0.000	0.19		19.6	OK
1.002	S3	5	56.025	-0.115	0.000	0.69		76.1	OK
1.003	S4	5	55.860	0.030	0.000	1.15		76.3	SURCHARGED
1.004	S5	5	55.767	0.007	0.000	1.11		78.9	SURCHARGED
1.005	Tank 1	10	54.826	-1.374	0.000	0.02		74.0	OK
1.006	S6	10	54.826	0.280	0.000	0.35		39.1	SURCHARGED
2.000	S7	5	56.605	-0.235	0.000	0.11		12.4	OK
2.001	S8	5	56.231	-0.179	0.000	0.34		42.9	OK
3.000	S9	5	55.809	-0.221	0.000	0.16		19.7	OK
2.002	S10	5	55.589	-0.061	0.000	0.99		62.1	OK
4.000	S11	5	55.737	0.062	0.000	1.49		43.0	SURCHARGED
2.003	Tank 2	10	54.824	-1.526	0.000	0.01		99.2	OK
2.004	S12	10	54.824	0.694	0.000	0.12		7.6	SURCHARGED
1.007	S13	10	54.823	0.813	0.000	0.14		10.1	SURCHARGED
1.008	S15	10	53.474	-0.186	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	7	56.441	-0.269	0.000	0.02		2.2	OK
1.001	S2	7	56.242	-0.228	0.000	0.13		13.5	OK
1.002	S3	7	55.985	-0.155	0.000	0.47		52.3	OK
1.003	S4	7	55.734	-0.096	0.000	0.80		53.1	OK
1.004	S5	7	55.659	-0.101	0.000	0.78		55.1	OK
1.005	Tank 1	8	54.923	-1.277	0.000	0.02		51.5	OK
1.006	S6	8	54.923	0.377	0.000	0.25		27.7	SURCHARGED
2.000	S7	7	56.594	-0.246	0.000	0.07		8.6	OK
2.001	S8	7	56.208	-0.202	0.000	0.23		29.6	OK
3.000	S9	7	55.796	-0.234	0.000	0.11		13.6	OK
2.002	S10	7	55.533	-0.117	0.000	0.69		43.2	OK
4.000	S11	7	55.656	-0.019	0.000	1.00		28.9	OK
2.003	Tank 2	8	54.922	-1.428	0.000	0.01		68.4	OK
2.004	S12	8	54.922	0.792	0.000	0.10		6.3	SURCHARGED
1.007	S13	6	54.925	0.915	0.000	0.14		10.1	SURCHARGED
1.008	S15	8	53.474	-0.186	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	8	56.435	-0.275	0.000	0.02		1.7	OK
1.001	S2	8	56.234	-0.236	0.000	0.10		10.5	OK
1.002	S3	8	55.966	-0.174	0.000	0.37		40.6	OK
1.003	S4	8	55.702	-0.128	0.000	0.62		41.3	OK
1.004	S5	8	55.628	-0.132	0.000	0.61		42.9	OK
1.005	Tank 1	5	54.941	-1.259	0.000	0.01		40.1	OK
1.006	S6	5	54.941	0.395	0.000	0.20		22.8	SURCHARGED
2.000	S7	8	56.587	-0.253	0.000	0.06		6.7	OK
2.001	S8	8	56.196	-0.214	0.000	0.18		23.1	OK
3.000	S9	8	55.789	-0.241	0.000	0.09		10.7	OK
2.002	S10	8	55.506	-0.144	0.000	0.54		33.7	OK
4.000	S11	8	55.604	-0.071	0.000	0.81		23.3	OK
2.003	Tank 2	5	54.941	-1.409	0.000	0.00		54.0	OK
2.004	S12	5	54.941	0.811	0.000	0.10		6.7	SURCHARGED
1.007	S13	5	54.944	0.934	0.000	0.14		10.1	SURCHARGED
1.008	S15	6	53.474	-0.186	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	10	56.430	-0.280	0.000	0.01		1.4	OK
1.001	S2	10	56.229	-0.241	0.000	0.09		8.7	OK
1.002	S3	10	55.953	-0.187	0.000	0.30		33.6	OK
1.003	S4	10	55.683	-0.147	0.000	0.51		34.1	OK
1.004	S5	10	55.610	-0.150	0.000	0.50		35.4	OK
1.005	Tank 1	6	54.931	-1.269	0.000	0.01		33.1	OK
1.006	S6	6	54.931	0.385	0.000	0.18		20.1	SURCHARGED
2.000	S7	10	56.582	-0.258	0.000	0.05		5.6	OK
2.001	S8	10	56.187	-0.223	0.000	0.15		19.1	OK
3.000	S9	10	55.782	-0.248	0.000	0.07		8.8	OK
2.002	S10	10	55.490	-0.160	0.000	0.44		27.9	OK
4.000	S11	10	55.585	-0.090	0.000	0.67		19.3	OK
2.003	Tank 2	6	54.931	-1.419	0.000	0.00		44.8	OK
2.004	S12	6	54.931	0.801	0.000	0.14		9.3	SURCHARGED
1.007	S13	7	54.920	0.910	0.000	0.14		10.1	SURCHARGED
1.008	S15	5	53.474	-0.186	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	12	56.426	-0.284	0.000	0.01		1.1	OK
1.001	S2	12	56.219	-0.251	0.000	0.06		6.6	OK
1.002	S3	12	55.937	-0.203	0.000	0.23		25.4	OK
1.003	S4	12	55.659	-0.171	0.000	0.39		25.7	OK
1.004	S5	12	55.587	-0.173	0.000	0.38		26.7	OK
1.005	Tank 1	9	54.913	-1.287	0.000	0.01		25.1	OK
1.006	S6	9	54.913	0.367	0.000	0.15		16.9	SURCHARGED
2.000	S7	12	56.577	-0.263	0.000	0.04		4.2	OK
2.001	S8	12	56.177	-0.233	0.000	0.11		14.5	OK
3.000	S9	12	55.775	-0.255	0.000	0.05		6.7	OK
2.002	S10	12	55.470	-0.180	0.000	0.34		21.1	OK
4.000	S11	12	55.563	-0.112	0.000	0.51		14.7	OK
2.003	Tank 2	9	54.913	-1.437	0.000	0.00		34.1	OK
2.004	S12	9	54.913	0.783	0.000	0.14		9.4	SURCHARGED
1.007	S13	9	54.902	0.892	0.000	0.14		10.1	SURCHARGED
1.008	S15	2	53.474	-0.186	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	1	56.451	-0.259	0.000	0.05		4.4	OK
1.001	S2	1	56.280	-0.190	0.000	0.28		28.5	OK
1.002	S3	1	56.228	0.088	0.000	0.88		97.9	SURCHARGED
1.003	S4	1	55.989	0.159	0.000	1.48		98.0	SURCHARGED
1.004	S5	1	55.833	0.073	0.000	1.43		101.4	SURCHARGED
1.005	Tank 1	13	54.690	-1.510	0.000	0.03		95.2	OK
1.006	S6	13	54.690	0.144	0.000	0.54		60.2	SURCHARGED
2.000	S7	1	56.618	-0.222	0.000	0.15		17.4	OK
2.001	S8	1	56.259	-0.151	0.000	0.48		61.3	OK
3.000	S9	1	55.827	-0.203	0.000	0.22		27.8	OK
2.002	S10	1	55.700	0.050	0.000	1.42		89.1	SURCHARGED
4.000	S11	1	55.835	0.160	0.000	2.08		60.2	SURCHARGED
2.003	Tank 2	13	54.608	-1.742	0.000	0.01		138.1	OK
2.004	S12	13	54.608	0.478	0.000	0.21		14.2	SURCHARGED
1.007	S13	13	54.628	0.618	0.000	0.14		10.0	SURCHARGED
1.008	S15	14	53.474	-0.186	0.000	0.11		9.6	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	4	56.447	-0.263	0.000	0.04		3.6	OK
1.001	S2	4	56.266	-0.204	0.000	0.22		22.6	OK
1.002	S3	4	56.085	-0.055	0.000	0.76		84.1	OK
1.003	S4	4	55.905	0.075	0.000	1.28		85.0	SURCHARGED
1.004	S5	4	55.789	0.029	0.000	1.24		88.2	SURCHARGED
1.005	Tank 1	11	54.778	-1.422	0.000	0.03		82.4	OK
1.006	S6	11	54.779	0.233	0.000	0.44		48.8	SURCHARGED
2.000	S7	4	56.610	-0.230	0.000	0.13		14.4	OK
2.001	S8	4	56.240	-0.170	0.000	0.39		49.5	OK
3.000	S9	4	55.816	-0.214	0.000	0.18		22.8	OK
2.002	S10	4	55.656	0.006	0.000	1.13		71.3	SURCHARGED
4.000	S11	4	55.769	0.094	0.000	1.72		49.8	SURCHARGED
2.003	Tank 2	11	54.770	-1.580	0.000	0.01		114.5	OK
2.004	S12	11	54.770	0.640	0.000	0.16		10.7	SURCHARGED
1.007	S13	11	54.767	0.757	0.000	0.14		10.1	SURCHARGED
1.008	S15	11	53.474	-0.186	0.000	0.11		10.0	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	6	56.442	-0.268	0.000	0.03		2.5	OK
1.001	S2	6	56.248	-0.222	0.000	0.15		15.6	OK
1.002	S3	6	55.999	-0.141	0.000	0.55		60.6	OK
1.003	S4	6	55.757	-0.073	0.000	0.93		61.5	OK
1.004	S5	6	55.682	-0.078	0.000	0.90		63.8	OK
1.005	Tank 1	7	54.930	-1.270	0.000	0.02		59.8	OK
1.006	S6	7	54.931	0.385	0.000	0.32		36.0	SURCHARGED
2.000	S7	6	56.600	-0.240	0.000	0.09		10.0	OK
2.001	S8	6	56.216	-0.194	0.000	0.27		34.4	OK
3.000	S9	6	55.801	-0.229	0.000	0.13		15.9	OK
2.002	S10	6	55.554	-0.096	0.000	0.80		50.2	OK
4.000	S11	6	55.705	0.030	0.000	1.20		34.8	SURCHARGED
2.003	Tank 2	7	54.927	-1.423	0.000	0.01		80.4	OK
2.004	S12	7	54.927	0.797	0.000	0.13		8.7	SURCHARGED
1.007	S13	8	54.920	0.910	0.000	0.14		10.1	SURCHARGED
1.008	S15	9	53.474	-0.186	0.000	0.11		10.1	OK

	Mitton Road Business Park Mitton Road Clitheroe
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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	9	56.434	-0.276	0.000	0.02		1.6	OK
1.001	S2	9	56.233	-0.237	0.000	0.10		10.1	OK
1.002	S3	9	55.963	-0.177	0.000	0.35		39.2	OK
1.003	S4	9	55.698	-0.132	0.000	0.60		39.8	OK
1.004	S5	9	55.625	-0.135	0.000	0.58		41.3	OK
1.005	Tank 1	4	55.052	-1.148	0.000	0.01		38.7	OK
1.006	S6	4	55.052	0.506	0.000	0.21		24.0	SURCHARGED
2.000	S7	9	56.586	-0.254	0.000	0.06		6.5	OK
2.001	S8	9	56.194	-0.216	0.000	0.17		22.3	OK
3.000	S9	9	55.788	-0.242	0.000	0.08		10.3	OK
2.002	S10	9	55.503	-0.147	0.000	0.52		32.6	OK
4.000	S11	9	55.600	-0.075	0.000	0.78		22.6	OK
2.003	Tank 2	4	55.050	-1.300	0.000	0.00		52.5	OK
2.004	S12	4	55.050	0.920	0.000	0.10		6.4	SURCHARGED
1.007	S13	4	55.039	1.029	0.000	0.14		10.1	SURCHARGED
1.008	S15	7	53.474	-0.186	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	11	56.428	-0.282	0.000	0.01		1.2	OK
1.001	S2	11	56.224	-0.246	0.000	0.08		7.7	OK
1.002	S3	11	55.945	-0.195	0.000	0.27		29.8	OK
1.003	S4	11	55.672	-0.158	0.000	0.46		30.3	OK
1.004	S5	11	55.599	-0.161	0.000	0.44		31.4	OK
1.005	Tank 1	2	55.084	-1.116	0.000	0.01		29.5	OK
1.006	S6	2	55.084	0.538	0.000	0.17		19.4	SURCHARGED
2.000	S7	11	56.580	-0.260	0.000	0.04		5.0	OK
2.001	S8	11	56.182	-0.228	0.000	0.13		17.0	OK
3.000	S9	11	55.779	-0.251	0.000	0.06		7.9	OK
2.002	S10	11	55.481	-0.169	0.000	0.39		24.8	OK
4.000	S11	11	55.575	-0.100	0.000	0.59		17.2	OK
2.003	Tank 2	2	55.084	-1.266	0.000	0.00		40.1	OK
2.004	S12	2	55.084	0.954	0.000	0.10		6.3	SURCHARGED
1.007	S13	2	55.073	1.063	0.000	0.14		10.1	SURCHARGED
1.008	S15	4	53.474	-0.186	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	13	56.425	-0.285	0.000	0.01		1.0	OK
1.001	S2	13	56.218	-0.252	0.000	0.06		6.3	OK
1.002	S3	13	55.935	-0.205	0.000	0.22		24.4	OK
1.003	S4	13	55.657	-0.173	0.000	0.37		24.7	OK
1.004	S5	13	55.585	-0.175	0.000	0.36		25.7	OK
1.005	Tank 1	1	55.085	-1.115	0.000	0.01		24.1	OK
1.006	S6	1	55.085	0.539	0.000	0.15		17.0	SURCHARGED
2.000	S7	13	56.576	-0.264	0.000	0.04		4.1	OK
2.001	S8	13	56.176	-0.234	0.000	0.11		13.9	OK
3.000	S9	13	55.774	-0.256	0.000	0.05		6.4	OK
2.002	S10	13	55.467	-0.183	0.000	0.32		20.3	OK
4.000	S11	13	55.561	-0.114	0.000	0.49		14.1	OK
2.003	Tank 2	1	55.085	-1.265	0.000	0.00		32.8	OK
2.004	S12	1	55.085	0.955	0.000	0.10		6.4	SURCHARGED
1.007	S13	1	55.089	1.079	0.000	0.14		10.1	SURCHARGED
1.008	S15	3	53.474	-0.186	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360
Return Period(s) (years)	30
Climate Change (%)	0

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	2400	14	56.421	-0.289	0.000	0.01		0.8	OK
1.001	S2	14	56.211	-0.259	0.000	0.05		4.7	OK
1.002	S3	14	55.921	-0.219	0.000	0.17		18.4	OK
1.003	S4	14	55.638	-0.192	0.000	0.28		18.6	OK
1.004	S5	14	55.566	-0.194	0.000	0.27		19.3	OK
1.005	Tank 1	3	55.052	-1.148	0.000	0.01		18.3	OK
1.006	S6	3	55.052	0.506	0.000	0.12		14.0	SURCHARGED
2.000	S7	14	56.572	-0.268	0.000	0.03		3.1	OK
2.001	S8	14	56.167	-0.243	0.000	0.08		10.5	OK
3.000	S9	14	55.768	-0.262	0.000	0.04		4.8	OK
2.002	S10	14	55.450	-0.200	0.000	0.24		15.3	OK
4.000	S11	14	55.544	-0.131	0.000	0.37		10.6	OK
2.003	Tank 2	3	55.052	-1.298	0.000	0.00		24.8	OK
2.004	S12	3	55.052	0.922	0.000	0.14		9.3	SURCHARGED
1.007	S13	3	55.056	1.046	0.000	0.14		10.1	SURCHARGED
1.008	S15	1	53.474	-0.186	0.000	0.11		10.1	OK

Summer 1 in 100 Yr +30% Storms 15 to 1440 Minute Duration

Winter 1 in 100 Yr +30% Storms 15 to 1440 Min Duration

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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	2	56.909	0.199	0.000	0.10		9.9	SURCHARGED
1.001	S2	2	56.903	0.433	0.000	0.43		43.8	FLOOD RISK
1.002	S3	2	56.859	0.719	0.000	1.26		139.7	FLOOD RISK
1.003	S4	2	56.344	0.514	0.000	2.11		140.0	FLOOD RISK
1.004	S5	2	56.016	0.256	0.000	2.06		145.9	SURCHARGED
1.005	Tank 1	24	54.985	-1.215	0.000	0.04		135.9	OK
1.006	S6	24	54.985	0.439	0.000	0.54		59.9	SURCHARGED
2.000	S7	2	56.641	-0.199	0.000	0.24		27.9	OK
2.001	S8	2	56.345	-0.065	0.000	0.78		99.3	OK
3.000	S9	5	55.936	-0.094	0.000	0.35		42.8	OK
2.002	S10	7	55.888	0.238	0.000	2.23		140.3	SURCHARGED
4.000	S11	2	56.118	0.443	0.000	3.32		96.1	SURCHARGED
2.003	Tank 2	24	54.859	-1.491	0.000	0.02		220.7	OK
2.004	S12	24	54.860	0.730	0.000	0.20		13.2	SURCHARGED
1.007	S13	24	54.895	0.885	0.000	0.14		9.9	SURCHARGED
1.008	S15	23	53.426	-0.234	0.000	0.10		9.3	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	30

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	2400	3	56.802	0.092	0.000	0.09		8.2	SURCHARGED
1.001	S2	3	56.798	0.328	0.000	0.41		41.7	SURCHARGED
1.002	S3	3	56.758	0.618	0.000	1.22		135.1	FLOOD RISK
1.003	S4	3	56.283	0.453	0.000	2.06		136.7	SURCHARGED
1.004	S5	3	55.986	0.226	0.000	2.00		141.5	SURCHARGED
1.005	Tank 1	22	55.150	-1.050	0.000	0.04		130.3	OK
1.006	S6	22	55.150	0.604	0.000	0.42		47.4	SURCHARGED
2.000	S7	3	56.638	-0.202	0.000	0.23		26.9	OK
2.001	S8	3	56.307	-0.103	0.000	0.74		94.7	OK
3.000	S9	7	55.910	-0.120	0.000	0.33		41.0	OK
2.002	S10	9	55.863	0.213	0.000	2.13		133.6	SURCHARGED
4.000	S11	3	56.080	0.405	0.000	3.17		91.8	SURCHARGED
2.003	Tank 2	22	55.125	-1.225	0.000	0.02		214.1	OK
2.004	S12	22	55.125	0.995	0.000	0.19		12.6	SURCHARGED
1.007	S13	22	55.125	1.115	0.000	0.14		10.1	SURCHARGED
1.008	S15	21	53.427	-0.233	0.000	0.11		9.9	OK

Mitton Road Business Park
Mitton Road
Clitheroe

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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	5	56.477	-0.233	0.000	0.05		5.2	OK
1.001	S2	5	56.465	-0.005	0.000	0.32		32.9	OK
1.002	S3	5	56.428	0.288	0.000	1.02		113.3	SURCHARGED
1.003	S4	5	56.102	0.272	0.000	1.73		114.6	SURCHARGED
1.004	S5	10	55.992	0.132	0.000	1.68		118.9	SURCHARGED
1.005	Tank 1	20	55.399	-0.801	0.000	0.04		109.9	OK
1.006	S6	20	55.399	0.853	0.000	0.37		41.8	SURCHARGED
2.000	S7	5	56.627	-0.213	0.000	0.18		21.2	OK
2.001	S8	5	56.275	-0.135	0.000	0.57		73.3	OK
3.000	S9	11	55.836	-0.194	0.000	0.27		33.6	OK
2.002	S10	13	55.753	0.103	0.000	1.68		105.8	SURCHARGED
4.000	S11	9	55.915	0.240	0.000	2.53		73.1	SURCHARGED
2.003	Tank 2	20	55.394	-0.956	0.000	0.02		170.2	OK
2.004	S12	20	55.394	1.264	0.000	0.16		10.6	SURCHARGED
1.007	S13	20	55.389	1.379	0.000	0.14		10.1	SURCHARGED
1.008	S15	19	53.427	-0.233	0.000	0.11		10.1	OK

Mitton Road Business Park
Mitton Road
Clitheroe

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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	7	56.448	-0.262	0.000	0.04		3.7	OK
1.001	S2	7	56.267	-0.203	0.000	0.23		23.0	OK
1.002	S3	7	56.105	-0.035	0.000	0.78		86.1	OK
1.003	S4	11	55.916	0.066	0.000	1.32		87.2	SURCHARGED
1.004	S5	14	55.795	0.035	0.000	1.28		90.4	SURCHARGED
1.005	Tank 1	15	55.621	-0.579	0.000	0.03		83.9	OK
1.006	S6	15	55.621	1.075	0.000	0.30		33.7	SURCHARGED
2.000	S7	7	56.611	-0.229	0.000	0.13		14.7	OK
2.001	S8	7	56.241	-0.169	0.000	0.40		50.6	OK
3.000	S9	14	55.818	-0.212	0.000	0.19		23.3	OK
2.002	S10	20	55.659	0.009	0.000	1.17		73.8	SURCHARGED
4.000	S11	15	55.775	0.100	0.000	1.76		51.0	SURCHARGED
2.003	Tank 2	15	55.618	-0.732	0.000	0.01		118.4	OK
2.004	S12	15	55.618	1.488	0.000	0.12		7.7	SURCHARGED
1.007	S13	15	55.607	1.597	0.000	0.14		10.1	SURCHARGED
1.008	S15	18	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	8		56.444	-0.266	0.000	0.03		2.9	OK
1.001	S2	8		56.254	-0.216	0.000	0.18		17.8	OK
1.002	S3	8		56.013	-0.127	0.000	0.62		69.1	OK
1.003	S4	14		55.830	0.000	0.000	1.05		69.3	OK
1.004	S5	16		55.743	-0.017	0.000	1.00		70.9	OK
1.005	Tank 1	11		55.697	-0.503	0.000	0.02		66.0	OK
1.006	S6	11		55.697	1.151	0.000	0.24		27.3	SURCHARGED
2.000	S7	8		56.603	-0.237	0.000	0.10		11.4	OK
2.001	S8	8		56.224	-0.186	0.000	0.31		39.2	OK
3.000	S9	15		55.806	-0.224	0.000	0.15		18.1	OK
2.002	S10	16		55.698	0.048	0.000	0.91		57.2	SURCHARGED
4.000	S11	16		55.723	0.048	0.000	1.37		39.7	SURCHARGED
2.003	Tank 2	11		55.696	-0.654	0.000	0.01		92.0	OK
2.004	S12	11		55.696	1.566	0.000	0.11		7.3	SURCHARGED
1.007	S13	11		55.682	1.672	0.000	0.15		10.2	SURCHARGED
1.008	S15	11		53.427	-0.233	0.000	0.12		10.2	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	10	56.441	-0.269	0.000	0.02		2.4	OK
1.001	S2	10	56.246	-0.224	0.000	0.14		14.6	OK
1.002	S3	10	55.993	-0.147	0.000	0.51		56.7	OK
1.003	S4	17	55.747	-0.083	0.000	0.87		57.6	OK
1.004	S5	17	55.719	-0.041	0.000	0.84		59.8	OK
1.005	Tank 1	9	55.716	-0.484	0.000	0.02		55.6	OK
1.006	S6	9	55.716	1.170	0.000	0.21		23.2	SURCHARGED
2.000	S7	10	56.597	-0.243	0.000	0.08		9.4	OK
2.001	S8	10	56.212	-0.198	0.000	0.25		32.2	OK
3.000	S9	16	55.799	-0.231	0.000	0.12		14.9	OK
2.002	S10	14	55.718	0.068	0.000	0.75		47.1	SURCHARGED
4.000	S11	17	55.717	0.042	0.000	1.13		32.7	SURCHARGED
2.003	Tank 2	9	55.716	-0.634	0.000	0.01		75.7	OK
2.004	S12	9	55.716	1.586	0.000	0.11		7.3	SURCHARGED
1.007	S13	9	55.702	1.692	0.000	0.15		10.3	SURCHARGED
1.008	S15	9	53.428	-0.232	0.000	0.12		10.3	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	12	56.436	-0.274	0.000	0.02		1.8	OK
1.001	S2	12	56.235	-0.235	0.000	0.11		11.0	OK
1.002	S3	14	55.969	-0.171	0.000	0.38		42.6	OK
1.003	S4	18	55.710	-0.120	0.000	0.65		43.2	OK
1.004	S5	18	55.708	-0.052	0.000	0.63		44.9	OK
1.005	Tank 1	10	55.705	-0.495	0.000	0.01		41.9	OK
1.006	S6	10	55.705	1.159	0.000	0.16		18.2	SURCHARGED
2.000	S7	12	56.588	-0.252	0.000	0.06		7.1	OK
2.001	S8	12	56.198	-0.212	0.000	0.19		24.3	OK
3.000	S9	17	55.791	-0.239	0.000	0.09		11.3	OK
2.002	S10	15	55.707	0.057	0.000	0.56		35.5	SURCHARGED
4.000	S11	18	55.707	0.032	0.000	0.85		24.6	SURCHARGED
2.003	Tank 2	10	55.705	-0.645	0.000	0.01		57.2	OK
2.004	S12	10	55.706	1.576	0.000	0.11		7.3	SURCHARGED
1.007	S13	10	55.692	1.682	0.000	0.15		10.2	SURCHARGED
1.008	S15	10	53.427	-0.233	0.000	0.12		10.2	OK

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Summary Wizard of 480 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	14	56.431	-0.279	0.000	0.01		1.4	OK
1.001	S2	14	56.230	-0.240	0.000	0.09		8.9	OK
1.002	S3	15	55.954	-0.186	0.000	0.31		34.6	OK
1.003	S4	19	55.687	-0.143	0.000	0.53		35.0	OK
1.004	S5	19	55.684	-0.076	0.000	0.51		36.4	OK
1.005	Tank 1	12	55.682	-0.518	0.000	0.01		34.1	OK
1.006	S6	12	55.682	1.136	0.000	0.14		15.3	SURCHARGED
2.000	S7	14	56.583	-0.257	0.000	0.05		5.8	OK
2.001	S8	14	56.188	-0.222	0.000	0.15		19.7	OK
3.000	S9	19	55.783	-0.247	0.000	0.07		9.1	OK
2.002	S10	18	55.684	0.034	0.000	0.46		28.8	SURCHARGED
4.000	S11	19	55.683	0.008	0.000	0.69		20.0	SURCHARGED
2.003	Tank 2	12	55.682	-0.668	0.000	0.00		46.5	OK
2.004	S12	12	55.682	1.552	0.000	0.11		7.2	SURCHARGED
1.007	S13	13	55.668	1.658	0.000	0.14		10.2	SURCHARGED
1.008	S15	12	53.427	-0.233	0.000	0.11		10.2	OK

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Summary Wizard of 600 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	16	56.428	-0.282	0.000	0.01		1.2	OK
1.001	S2	16	56.224	-0.246	0.000	0.07		7.6	OK
1.002	S3	17	55.944	-0.196	0.000	0.26		29.3	OK
1.003	S4	20	55.671	-0.159	0.000	0.45		29.8	OK
1.004	S5	20	55.665	-0.095	0.000	0.44		30.9	OK
1.005	Tank 1	13	55.663	-0.537	0.000	0.01		29.0	OK
1.006	S6	13	55.663	1.117	0.000	0.12		13.4	SURCHARGED
2.000	S7	16	56.580	-0.260	0.000	0.04		4.9	OK
2.001	S8	16	56.182	-0.228	0.000	0.13		16.7	OK
3.000	S9	20	55.778	-0.252	0.000	0.06		7.7	OK
2.002	S10	19	55.665	0.015	0.000	0.39		24.5	SURCHARGED
4.000	S11	20	55.664	-0.011	0.000	0.59		17.0	OK
2.003	Tank 2	13	55.664	-0.686	0.000	0.00		39.5	OK
2.004	S12	13	55.664	1.534	0.000	0.14		9.4	SURCHARGED
1.007	S13	12	55.669	1.659	0.000	0.14		10.1	SURCHARGED
1.008	S15	13	53.427	-0.233	0.000	0.11		10.1	OK

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Summary Wizard of 720 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	17	56.426	-0.284	0.000	0.01		1.1	OK
1.001	S2	17	56.220	-0.250	0.000	0.07		6.6	OK
1.002	S3	18	55.937	-0.203	0.000	0.23		25.7	OK
1.003	S4	21	55.660	-0.170	0.000	0.39		26.0	OK
1.004	S5	21	55.641	-0.119	0.000	0.38		27.0	OK
1.005	Tank 1	14	55.639	-0.561	0.000	0.01		25.4	OK
1.006	S6	14	55.639	1.093	0.000	0.11		12.1	SURCHARGED
2.000	S7	17	56.577	-0.263	0.000	0.04		4.3	OK
2.001	S8	17	56.177	-0.233	0.000	0.11		14.6	OK
3.000	S9	21	55.775	-0.255	0.000	0.05		6.8	OK
2.002	S10	21	55.641	-0.009	0.000	0.34		21.4	OK
4.000	S11	21	55.641	-0.034	0.000	0.51		14.8	OK
2.003	Tank 2	14	55.640	-0.710	0.000	0.00		34.6	OK
2.004	S12	14	55.640	1.510	0.000	0.14		9.3	SURCHARGED
1.007	S13	14	55.644	1.634	0.000	0.14		10.1	SURCHARGED
1.008	S15	17	53.427	-0.233	0.000	0.11		10.1	OK

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Mitton Road
Clitheroe

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Summary Wizard of 960 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	20	56.423	-0.287	0.000	0.01		0.9	OK
1.001	S2	20	56.214	-0.256	0.000	0.05		5.4	OK
1.002	S3	20	55.927	-0.213	0.000	0.19		20.7	OK
1.003	S4	22	55.646	-0.184	0.000	0.32		21.0	OK
1.004	S5	23	55.583	-0.177	0.000	0.31		21.8	OK
1.005	Tank 1	17	55.580	-0.620	0.000	0.01		20.6	OK
1.006	S6	17	55.580	1.034	0.000	0.10		11.0	SURCHARGED
2.000	S7	20	56.574	-0.266	0.000	0.03		3.5	OK
2.001	S8	20	56.171	-0.239	0.000	0.09		11.8	OK
3.000	S9	22	55.770	-0.260	0.000	0.04		5.5	OK
2.002	S10	23	55.582	-0.068	0.000	0.27		17.3	OK
4.000	S11	23	55.582	-0.093	0.000	0.41		12.0	OK
2.003	Tank 2	17	55.581	-0.769	0.000	0.00		28.0	OK
2.004	S12	17	55.581	1.451	0.000	0.14		9.4	SURCHARGED
1.007	S13	17	55.567	1.557	0.000	0.14		10.1	SURCHARGED
1.008	S15	14	53.427	-0.233	0.000	0.11		10.1	OK

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Summary Wizard of 1440 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	22	56.419	-0.291	0.000	0.01		0.6	OK
1.001	S2	22	56.208	-0.262	0.000	0.04		4.0	OK
1.002	S3	22	55.914	-0.226	0.000	0.14		15.3	OK
1.003	S4	23	55.628	-0.202	0.000	0.23		15.5	OK
1.004	S5	24	55.556	-0.204	0.000	0.23		16.1	OK
1.005	Tank 1	19	55.469	-0.731	0.000	0.00		15.3	OK
1.006	S6	19	55.469	0.923	0.000	0.08		9.5	SURCHARGED
2.000	S7	22	56.570	-0.270	0.000	0.02		2.6	OK
2.001	S8	22	56.161	-0.249	0.000	0.07		8.7	OK
3.000	S9	23	55.765	-0.265	0.000	0.03		4.0	OK
2.002	S10	24	55.470	-0.180	0.000	0.20		12.8	OK
4.000	S11	24	55.535	-0.140	0.000	0.31		8.8	OK
2.003	Tank 2	19	55.469	-0.881	0.000	0.00		20.8	OK
2.004	S12	19	55.469	1.339	0.000	0.14		9.4	SURCHARGED
1.007	S13	19	55.473	1.463	0.000	0.14		10.1	SURCHARGED
1.008	S15	15	53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	1	56.981	0.271	0.000	0.10		10.1	SURCHARGED
1.001	S2	1	56.975	0.505	0.000	0.44		44.8	FLOOD RISK
1.002	S3	1	56.930	0.790	0.000	1.30		143.8	FLOOD RISK
1.003	S4	1	56.384	0.554	0.000	2.20		145.7	FLOOD RISK
1.004	S5	1	56.037	0.277	0.000	2.14		151.4	SURCHARGED
1.005	Tank 1	23	55.083	-1.117	0.000	0.04		140.3	OK
1.006	S6	23	55.083	0.537	0.000	0.55		61.0	SURCHARGED
2.000	S7	1	56.644	-0.196	0.000	0.25		29.2	OK
2.001	S8	1	56.360	-0.050	0.000	0.78		99.4	OK
3.000	S9	3	55.949	-0.081	0.000	0.36		44.6	OK
2.002	S10	6	55.899	0.249	0.000	2.27		142.8	SURCHARGED
4.000	S11	1	56.163	0.488	0.000	3.46		100.2	SURCHARGED
2.003	Tank 2	23	54.951	-1.399	0.000	0.02		227.6	OK
2.004	S12	23	54.951	0.821	0.000	0.21		14.0	SURCHARGED
1.007	S13	23	54.991	0.981	0.000	0.14		9.9	SURCHARGED
1.008	S15	24	53.426	-0.234	0.000	0.10		9.2	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	4	56.684	-0.026	0.000	0.07		6.8	OK
1.001	S2	4	56.678	0.208	0.000	0.38		39.2	SURCHARGED
1.002	S3	4	56.637	0.497	0.000	1.15		127.2	SURCHARGED
1.003	S4	4	56.221	0.391	0.000	1.94		128.7	SURCHARGED
1.004	S5	6	55.953	0.193	0.000	1.89		133.8	SURCHARGED
1.005	Tank 1	21	55.280	-0.920	0.000	0.04		123.9	OK
1.006	S6	21	55.280	0.734	0.000	0.44		48.7	SURCHARGED
2.000	S7	4	56.633	-0.207	0.000	0.21		24.4	OK
2.001	S8	4	56.289	-0.121	0.000	0.66		84.0	OK
3.000	S9	10	55.855	-0.175	0.000	0.31		38.3	OK
2.002	S10	11	55.809	0.159	0.000	1.93		121.1	SURCHARGED
4.000	S11	4	56.003	0.328	0.000	2.90		83.8	SURCHARGED
2.003	Tank 2	21	55.251	-1.099	0.000	0.02		194.9	OK
2.004	S12	21	55.251	1.121	0.000	0.19		12.5	SURCHARGED
1.007	S13	21	55.255	1.245	0.000	0.14		10.1	SURCHARGED
1.008	S15	22	53.427	-0.233	0.000	0.11		9.9	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	6		56.450	-0.260	0.000	0.04		4.3	OK
1.001	S2	6		56.286	-0.184	0.000	0.26		26.5	OK
1.002	S3	6		56.245	0.105	0.000	0.89		98.8	SURCHARGED
1.003	S4	6		55.997	0.167	0.000	1.51		100.1	SURCHARGED
1.004	S5	12		55.837	0.077	0.000	1.47		103.8	SURCHARGED
1.005	Tank 1	18		55.564	-0.636	0.000	0.03		96.3	OK
1.006	S6	18		55.564	1.018	0.000	0.34		38.3	SURCHARGED
2.000	S7	6		56.617	-0.223	0.000	0.15		17.1	OK
2.001	S8	6		56.253	-0.157	0.000	0.46		58.7	OK
3.000	S9	12		55.825	-0.205	0.000	0.22		27.2	OK
2.002	S10	17		55.690	0.040	0.000	1.36		85.6	SURCHARGED
4.000	S11	12		55.822	0.147	0.000	2.05		59.4	SURCHARGED
2.003	Tank 2	18		55.558	-0.792	0.000	0.01		137.9	OK
2.004	S12	18		55.558	1.428	0.000	0.18		11.6	SURCHARGED
1.007	S13	18		55.554	1.544	0.000	0.14		10.1	SURCHARGED
1.008	S15	20		53.427	-0.233	0.000	0.11		10.1	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	30

PN	US/MH Name	Storm	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	2400	9	56.443	-0.267	0.000	0.03		2.8	OK
1.001	S2	9	56.253	-0.217	0.000	0.17		17.3	OK
1.002	S3	9	56.009	-0.131	0.000	0.60		67.0	OK
1.003	S4	15	55.830	0.000	0.000	1.00		66.3	OK
1.004	S5	13	55.822	0.062	0.000	0.97		68.9	SURCHARGED
1.005	Tank 1	7	55.819	-0.381	0.000	0.02		64.3	OK
1.006	S6	7	55.820	1.274	0.000	0.24		27.3	SURCHARGED
2.000	S7	9	56.602	-0.238	0.000	0.10		11.1	OK
2.001	S8	9	56.222	-0.188	0.000	0.30		38.1	OK
3.000	S9	13	55.819	-0.211	0.000	0.14		17.6	OK
2.002	S10	10	55.818	0.168	0.000	0.89		55.7	SURCHARGED
4.000	S11	13	55.817	0.142	0.000	1.33		38.6	SURCHARGED
2.003	Tank 2	7	55.817	-0.533	0.000	0.01		89.7	OK
2.004	S12	7	55.817	1.687	0.000	0.13		8.4	SURCHARGED
1.007	S13	7	55.804	1.794	0.000	0.15		10.5	SURCHARGED
1.008	S15	7	53.428	-0.232	0.000	0.12		10.5	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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	11	56.440	-0.270	0.000	0.02		2.1	OK
1.001	S2	11	56.241	-0.229	0.000	0.13		13.1	OK
1.002	S3	11	55.982	-0.158	0.000	0.46		50.7	OK
1.003	S4	10	55.927	0.097	0.000	0.78		51.4	SURCHARGED
1.004	S5	8	55.924	0.164	0.000	0.75		53.4	SURCHARGED
1.005	Tank 1	4	55.921	-0.279	0.000	0.02		49.9	OK
1.006	S6	4	55.921	1.375	0.000	0.19		21.5	SURCHARGED
2.000	S7	11	56.593	-0.247	0.000	0.07		8.4	OK
2.001	S8	11	56.206	-0.204	0.000	0.23		28.9	OK
3.000	S9	6	55.923	-0.107	0.000	0.11		13.4	OK
2.002	S10	4	55.922	0.272	0.000	0.67		42.2	SURCHARGED
4.000	S11	8	55.921	0.246	0.000	1.00		28.9	SURCHARGED
2.003	Tank 2	4	55.921	-0.429	0.000	0.01		67.7	OK
2.004	S12	4	55.921	1.791	0.000	0.11		7.5	SURCHARGED
1.007	S13	4	55.906	1.896	0.000	0.15		10.7	SURCHARGED
1.008	S15	4	53.429	-0.231	0.000	0.12		10.7	OK

Mitton Road Business Park
Mitton Road
Clitheroe

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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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	13	56.435	-0.275	0.000	0.02		1.7	OK
1.001	S2	13	56.234	-0.236	0.000	0.10		10.7	OK
1.002	S3	13	55.969	-0.171	0.000	0.37		41.2	OK
1.003	S4	8	55.963	0.133	0.000	0.63		41.8	SURCHARGED
1.004	S5	5	55.961	0.201	0.000	0.61		43.4	SURCHARGED
1.005	Tank 1	2	55.958	-0.242	0.000	0.01		40.6	OK
1.006	S6	2	55.958	1.412	0.000	0.16		18.0	SURCHARGED
2.000	S7	13	56.587	-0.253	0.000	0.06		6.9	OK
2.001	S8	13	56.196	-0.214	0.000	0.18		23.5	OK
3.000	S9	2	55.961	-0.069	0.000	0.09		10.9	OK
2.002	S10	2	55.960	0.310	0.000	0.55		34.4	SURCHARGED
4.000	S11	6	55.959	0.284	0.000	0.82		23.8	SURCHARGED
2.003	Tank 2	2	55.958	-0.392	0.000	0.00		55.4	OK
2.004	S12	2	55.958	1.828	0.000	0.11		7.6	SURCHARGED
1.007	S13	3	55.943	1.933	0.000	0.15		10.8	SURCHARGED
1.008	S15	2	53.429	-0.231	0.000	0.12		10.8	OK

	Mitton Road Business Park Mitton Road Clitheroe
Date 26/06/2025 09:56	Designed by D & D Drainage
File Mitton 1.MDX	Checked by
Micro Drainage	Network 2017.1.2

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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	15	56.429	-0.281	0.000	0.01		1.3	OK
1.001	S2	15	56.225	-0.245	0.000	0.08		8.0	OK
1.002	S3	12	55.978	-0.162	0.000	0.28		30.8	OK
1.003	S4	7	55.972	0.142	0.000	0.47		31.2	SURCHARGED
1.004	S5	4	55.970	0.210	0.000	0.46		32.4	SURCHARGED
1.005	Tank 1	1	55.968	-0.232	0.000	0.01		30.4	OK
1.006	S6	1	55.968	1.422	0.000	0.13		14.1	SURCHARGED
2.000	S7	15	56.581	-0.259	0.000	0.04		5.1	OK
2.001	S8	15	56.184	-0.226	0.000	0.14		17.5	OK
3.000	S9	1	55.971	-0.059	0.000	0.07		8.1	OK
2.002	S10	1	55.969	0.319	0.000	0.41		25.7	SURCHARGED
4.000	S11	5	55.969	0.294	0.000	0.61		17.8	SURCHARGED
2.003	Tank 2	1	55.968	-0.382	0.000	0.00		41.5	OK
2.004	S12	1	55.968	1.838	0.000	0.12		7.6	SURCHARGED
1.007	S13	1	55.952	1.942	0.000	0.15		10.9	SURCHARGED
1.008	S15	1	53.429	-0.231	0.000	0.12		10.9	OK

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Summary Wizard of 480 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	18	56.425	-0.285	0.000	0.01		1.0	OK
1.001	S2	18	56.219	-0.251	0.000	0.06		6.5	OK
1.002	S3	16	55.947	-0.193	0.000	0.23		25.0	OK
1.003	S4	9	55.942	0.112	0.000	0.38		25.3	SURCHARGED
1.004	S5	7	55.940	0.180	0.000	0.37		26.3	SURCHARGED
1.005	Tank 1	3	55.938	-0.262	0.000	0.01		24.7	OK
1.006	S6	3	55.938	1.392	0.000	0.11		12.4	SURCHARGED
2.000	S7	18	56.577	-0.263	0.000	0.04		4.2	OK
2.001	S8	18	56.176	-0.234	0.000	0.11		14.2	OK
3.000	S9	4	55.940	-0.090	0.000	0.05		6.6	OK
2.002	S10	3	55.939	0.289	0.000	0.33		20.8	SURCHARGED
4.000	S11	7	55.939	0.264	0.000	0.50		14.4	SURCHARGED
2.003	Tank 2	3	55.938	-0.412	0.000	0.00		33.7	OK
2.004	S12	3	55.938	1.808	0.000	0.12		7.6	SURCHARGED
1.007	S13	2	55.944	1.934	0.000	0.15		10.8	SURCHARGED
1.008	S15	3	53.429	-0.231	0.000	0.12		10.8	OK

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Summary Wizard of 600 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	30

PN	US/MH Name	Storm	Water Level Rank	(m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	2400	19	56.423	-0.287	0.000	0.01		0.9	OK
1.001	S2	19	56.215	-0.255	0.000	0.05		5.5	OK
1.002	S3	19	55.928	-0.212	0.000	0.19		21.2	OK
1.003	S4	12	55.907	0.077	0.000	0.32		21.5	SURCHARGED
1.004	S5	9	55.904	0.144	0.000	0.32		22.3	SURCHARGED
1.005	Tank 1	5	55.902	-0.298	0.000	0.01		21.0	OK
1.006	S6	5	55.902	1.356	0.000	0.10		11.5	SURCHARGED
2.000	S7	19	56.574	-0.266	0.000	0.03		3.5	OK
2.001	S8	19	56.172	-0.238	0.000	0.09		12.1	OK
3.000	S9	8	55.905	-0.125	0.000	0.05		5.6	OK
2.002	S10	5	55.904	0.254	0.000	0.28		17.7	SURCHARGED
4.000	S11	10	55.903	0.228	0.000	0.42		12.3	SURCHARGED
2.003	Tank 2	5	55.902	-0.448	0.000	0.00		28.6	OK
2.004	S12	5	55.902	1.772	0.000	0.11		7.5	SURCHARGED
1.007	S13	5	55.888	1.878	0.000	0.15		10.7	SURCHARGED
1.008	S15	5	53.429	-0.231	0.000	0.12		10.7	OK

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Summary Wizard of 720 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	21	56.421	-0.289	0.000	0.01		0.8	OK
1.001	S2	21	56.212	-0.258	0.000	0.05		4.8	OK
1.002	S3	21	55.922	-0.218	0.000	0.17		18.5	OK
1.003	S4	13	55.870	0.040	0.000	0.28		18.8	SURCHARGED
1.004	S5	11	55.868	0.108	0.000	0.28		19.5	SURCHARGED
1.005	Tank 1	6	55.865	-0.335	0.000	0.01		18.4	OK
1.006	S6	6	55.865	1.319	0.000	0.10		10.7	SURCHARGED
2.000	S7	21	56.573	-0.267	0.000	0.03		3.1	OK
2.001	S8	21	56.167	-0.243	0.000	0.08		10.6	OK
3.000	S9	9	55.869	-0.161	0.000	0.04		4.9	OK
2.002	S10	8	55.867	0.217	0.000	0.25		15.4	SURCHARGED
4.000	S11	11	55.867	0.192	0.000	0.37		10.7	SURCHARGED
2.003	Tank 2	6	55.866	-0.484	0.000	0.00		25.1	OK
2.004	S12	6	55.866	1.736	0.000	0.14		9.3	SURCHARGED
1.007	S13	6	55.851	1.841	0.000	0.15		10.6	SURCHARGED
1.008	S15	6	53.429	-0.231	0.000	0.12		10.6	OK

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Summary Wizard of 960 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	23	56.419	-0.291	0.000	0.01		0.6	OK
1.001	S2	23	56.208	-0.262	0.000	0.04		3.9	OK
1.002	S3	23	55.913	-0.227	0.000	0.14		15.0	OK
1.003	S4	16	55.788	-0.042	0.000	0.23		15.2	OK
1.004	S5	15	55.785	0.025	0.000	0.22		15.8	SURCHARGED
1.005	Tank 1	8	55.783	-0.417	0.000	0.00		14.9	OK
1.006	S6	8	55.783	1.237	0.000	0.09		9.5	SURCHARGED
2.000	S7	23	56.570	-0.270	0.000	0.02		2.5	OK
2.001	S8	23	56.160	-0.250	0.000	0.07		8.5	OK
3.000	S9	18	55.786	-0.244	0.000	0.03		4.0	OK
2.002	S10	12	55.785	0.135	0.000	0.20		12.5	SURCHARGED
4.000	S11	14	55.784	0.109	0.000	0.30		8.7	SURCHARGED
2.003	Tank 2	8	55.783	-0.567	0.000	0.00		20.3	OK
2.004	S12	8	55.783	1.653	0.000	0.14		9.4	SURCHARGED
1.007	S13	8	55.768	1.758	0.000	0.15		10.4	SURCHARGED
1.008	S15	8	53.428	-0.232	0.000	0.12		10.4	OK

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Micro Drainage	Network 2017.1.2

Summary Wizard of 1440 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 Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.300
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	100
Climate Change (%)	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	2400	24	56.417	-0.293	0.000	0.00		0.5	OK
1.001	S2	24	56.203	-0.267	0.000	0.03		2.9	OK
1.002	S3	24	55.903	-0.237	0.000	0.10		11.1	OK
1.003	S4	24	55.612	-0.218	0.000	0.17		11.2	OK
1.004	S5	22	55.600	-0.160	0.000	0.16		11.6	OK
1.005	Tank 1	16	55.598	-0.602	0.000	0.00		11.2	OK
1.006	S6	16	55.598	1.052	0.000	0.07		8.1	SURCHARGED
2.000	S7	24	56.563	-0.277	0.000	0.02		1.8	OK
2.001	S8	24	56.153	-0.257	0.000	0.05		6.3	OK
3.000	S9	24	55.761	-0.269	0.000	0.02		2.9	OK
2.002	S10	22	55.600	-0.050	0.000	0.15		9.2	OK
4.000	S11	22	55.599	-0.076	0.000	0.22		6.4	OK
2.003	Tank 2	16	55.598	-0.752	0.000	0.00		15.1	OK
2.004	S12	16	55.598	1.468	0.000	0.14		9.4	SURCHARGED
1.007	S13	16	55.584	1.574	0.000	0.14		10.1	SURCHARGED
1.008	S15	16	53.427	-0.233	0.000	0.11		10.1	OK