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Merchant Exchange 17-19 Whitworth Street West Manchester, M1 5WG		
Date 01/07/2022 22:38 File Existing Drainage 01.07....		
Designed by losty_a Checked by		
Innovyze		Network 2018.1.1

Area Summary for Catchment C

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.049	0.049	0.049
1.001	-	-	100	0.044	0.044	0.044
2.000	-	-	100	0.016	0.016	0.016
1.002	-	-	100	0.033	0.033	0.033
1.003	-	-	100	0.141	0.141	0.141
3.000	-	-	100	0.087	0.087	0.087
3.001	-	-	100	0.124	0.124	0.124
1.004	-	-	100	0.143	0.143	0.143
1.005	-	-	100	0.017	0.017	0.017
4.000	-	-	100	0.081	0.081	0.081
4.001	-	-	100	0.010	0.010	0.010
4.002	-	-	100	0.000	0.000	0.000
4.003	-	-	100	0.000	0.000	0.000
1.006	-	-	100	0.018	0.018	0.018
5.000	-	-	100	0.029	0.029	0.029
1.007	-	-	100	0.015	0.015	0.015
1.008	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.807	0.807	0.807

Simulation Criteria for Catchment C

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.500	Storm Duration (mins)	30
Ratio R	0.345		

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Summary of Critical Results by Maximum Level (Rank 1) for Catchment C

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.347
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.500	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
Return Period(s) (years)	1
Climate Change (%)	0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	C71	15 Winter	1	+0%					78.044
1.001	CBEND	15 Winter	1	+0%					77.566
2.000	C76	15 Winter	1	+0%					77.789
1.002	C70	15 Winter	1	+0%	1/15 Winter				76.944
1.003	C72	15 Winter	1	+0%	1/15 Summer				76.932
3.000	C58	15 Winter	1	+0%					77.752
3.001	C59	15 Winter	1	+0%	1/15 Summer				76.649
1.004	C67	15 Winter	1	+0%	1/15 Summer				76.575
1.005	C25	15 Winter	1	+0%	1/15 Summer				73.235
4.000	C110	15 Winter	1	+0%	1/15 Summer				73.633
4.001	C108	15 Winter	1	+0%	1/15 Summer				73.362
4.002	C31	15 Winter	1	+0%					72.995
4.003	C107	15 Winter	1	+0%					72.933
1.006	CJUNCTION	15 Winter	1	+0%					72.674
5.000	C30	15 Winter	1	+0%					73.041
1.007	C26	15 Winter	1	+0%	1/15 Winter				71.647
1.008	C29	15 Winter	1	+0%					71.252

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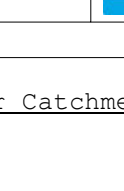
Surcharged Outfall Details for Catchment C

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.008	C169	73.000	70.670	70.670	1200	0

Datum (m) 70.970 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)	Time (mins)	Depth (m)
15	1.000	225	1.000	435	1.000	645	1.000	855	1.000	1065	1.000	1275	1.000
30	1.000	240	1.000	450	1.000	660	1.000	870	1.000	1080	1.000	1290	1.000
45	1.000	255	1.000	465	1.000	675	1.000	885	1.000	1095	1.000	1305	1.000
60	1.000	270	1.000	480	1.000	690	1.000	900	1.000	1110	1.000	1320	1.000
75	1.000	285	1.000	495	1.000	705	1.000	915	1.000	1125	1.000	1335	1.000
90	1.000	300	1.000	510	1.000	720	1.000	930	1.000	1140	1.000	1350	1.000
105	1.000	315	1.000	525	1.000	735	1.000	945	1.000	1155	1.000	1365	1.000
120	1.000	330	1.000	540	1.000	750	1.000	960	1.000	1170	1.000	1380	1.000
135	1.000	345	1.000	555	1.000	765	1.000	975	1.000	1185	1.000	1395	1.000
150	1.000	360	1.000	570	1.000	780	1.000	990	1.000	1200	1.000	1410	1.000
165	1.000	375	1.000	585	1.000	795	1.000	1005	1.000	1215	1.000	1425	1.000
180	1.000	390	1.000	600	1.000	810	1.000	1020	1.000	1230	1.000	1440	1.000
195	1.000	405	1.000	615	1.000	825	1.000	1035	1.000	1245	1.000		
210	1.000	420	1.000	630	1.000	840	1.000	1050	1.000	1260	1.000		

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Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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 Analysis Timestep Fine Inertia Status OFF
 DTS Status ON

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 Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440
 Return Period(s) (years) 30
 Climate Change (%) 0

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1.001	CBEND	15 Winter	30	+0%	30/15 Summer	30/15 Summer			78.161
2.000	C76	15 Winter	30	+0%	30/15 Summer				78.067
1.002	C70	15 Winter	30	+0%	30/15 Summer				78.051
1.003	C72	30 Winter	30	+0%	30/15 Summer	30/15 Summer			77.886
3.000	C58	15 Winter	30	+0%	30/15 Summer				78.752
3.001	C59	30 Winter	30	+0%	30/15 Summer	30/15 Summer			78.494
1.004	C67	15 Winter	30	+0%	30/15 Summer	30/15 Summer			78.092
1.005	C25	30 Winter	30	+0%	30/15 Summer				74.084
4.000	C110	15 Winter	30	+0%	30/15 Summer	30/15 Summer			74.501
4.001	C108	30 Winter	30	+0%	30/15 Summer				74.041
4.002	C31	30 Winter	30	+0%	30/15 Summer				73.487
4.003	C107	30 Winter	30	+0%	30/15 Summer				73.451
1.006	CJUNCTION	30 Winter	30	+0%	30/15 Summer				73.415
5.000	C30	15 Winter	30	+0%					73.053
1.007	C26	30 Winter	30	+0%	30/15 Summer				72.416
1.008	C29	30 Winter	30	+0%	30/15 Summer				72.058

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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 (%) 0								
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	C71	15 Winter	100	+0%	100/15 Summer			
1.001	CBEND	15 Winter	100	+0%	100/15 Summer	100/15 Summer		
2.000	C76	15 Winter	100	+0%	100/15 Summer			
1.002	C70	15 Winter	100	+0%	100/15 Summer			
1.003	C72	60 Winter	100	+0%	100/15 Summer	100/15 Summer		
3.000	C58	15 Winter	100	+0%	100/15 Summer	100/15 Winter		
3.001	C59	30 Winter	100	+0%	100/15 Summer	100/15 Summer		
1.004	C67	15 Winter	100	+0%	100/15 Summer	100/15 Summer		
1.005	C25	60 Winter	100	+0%	100/15 Summer	100/15 Summer		
4.000	C110	30 Winter	100	+0%	100/15 Summer	100/15 Summer		
4.001	C108	30 Winter	100	+0%	100/15 Summer			
4.002	C31	30 Winter	100	+0%	100/15 Summer			
4.003	C107	30 Winter	100	+0%	100/15 Summer			
1.006	CJUNCTION	30 Winter	100	+0%	100/15 Summer			
5.000	C30	15 Winter	100	+0%				
1.007	C26	30 Winter	100	+0%	100/15 Summer			
1.008	C29	30 Winter	100	+0%	100/15 Summer			
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