


7 Bertal Road London SW17 0BX	Walley Development Network 2 SW Calculations	
Date 25.09.18 File NETWORK 2 - 24.09.18.MDX	Designed by MDS Checked by MDS	

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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.840	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	40.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	1.000
Hot Start Level (mm)	0	Run Time (mins)	720
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	6

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

Synthetic Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
Site Location	GB 373650 436500 SD 73650 36500
C (1km)	-0.025
D1 (1km)	0.397
D2 (1km)	0.353
D3 (1km)	0.399
E (1km)	0.300
F (1km)	2.461
Summer Storms	No
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Storm Duration (mins)	360

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Summary of Results for 360 minute 100 year Winter (Storm)

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

PN	US/MH Name	US/CL (m)	Water			Flow / Cap.	Maximum Vol (m³)	Discharge Vol (m³)	Pipe Flow (l/s)
			Level (m)	Depth (m)	Volume (m³)				
1.000	S45	55.830	54.969	-0.411	0.000	0.01	0.850	56.370	6.6
1.001	S46	55.740	54.969	-0.320	0.000	0.03	8.173	107.347	12.9
1.002	S47	55.750	54.969	-0.264	0.000	0.07	6.275	159.406	19.3
1.003	S48	56.250	54.969	-0.243	0.000	0.09	2.995	214.795	25.8
1.004	S49	56.750	54.969	-0.224	0.000	0.10	2.914	269.825	32.4
1.005	S50	57.000	54.969	-0.198	0.000	0.08	3.843	324.622	38.7
1.006	S51	57.250	54.968	-0.138	0.000	0.10	9.062	375.347	44.6
2.000	S52	55.820	54.967	-0.403	0.000	0.02	0.871	65.418	7.7
2.001	S53	55.730	54.967	-0.313	0.000	0.04	8.251	124.798	14.9
3.000	S54	55.740	54.967	-0.323	0.000	0.03	1.075	125.807	14.7
2.002	S55	55.690	54.967	-0.272	0.000	0.08	9.144	319.118	37.9
2.003	S56	56.400	54.968	-0.185	0.000	0.09	11.207	386.051	45.5
1.007	S57	57.250	54.967	-0.083	0.000	0.20	23.811	906.220	106.6
1.008	S58	57.950	54.966	0.043	0.000	0.32	22.974	925.873	107.8
1.009	S59	57.250	54.965	0.076	0.000	0.34	7.230	962.671	111.4
1.010	S60	57.200	54.964	0.104	0.000	0.25	6.406	997.011	115.0
1.011	S61	56.750	54.963	0.169	0.000	0.28	13.106	1027.039	117.2
1.012	S62	55.800	54.962	0.216	0.000	0.26	10.133	1057.045	120.3
1.013	S63	55.800	54.961	0.282	0.000	0.26	13.659	1044.609	117.8
1.014	S64 / FC	55.300	54.961	0.326	0.000	0.01	921.663	221.810	6.3

PN	US/MH Name	Status
1.000	S45	OK
1.001	S46	OK
1.002	S47	OK
1.003	S48	OK
1.004	S49	OK
1.005	S50	OK
1.006	S51	OK
2.000	S52	OK
2.001	S53	OK
3.000	S54	OK
2.002	S55	OK
2.003	S56	OK
1.007	S57	OK
1.008	S58	SURCHARGED
1.009	S59	SURCHARGED
1.010	S60	SURCHARGED
1.011	S61	SURCHARGED
1.012	S62	SURCHARGED

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US/MH		
PN	Name	Status
1.013	S63	SURCHARGED
1.014	S64 / FC	SURCHARGED

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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.840	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	40.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	1.000
Hot Start Level (mm)	0	Run Time (mins)	2880
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	24
Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
Site Location	GB 373650 436500 SD 73650 36500
C (1km)	-0.025
D1 (1km)	0.397
D2 (1km)	0.353
D3 (1km)	0.399
E (1km)	0.300
F (1km)	2.461
Summer Storms	No
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	0.840
Storm Duration (mins)	1440

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Summary of Results for 1440 minute 100 year Winter (Storm)

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

PN	US/MH Name	US/CL (m)	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Maximum Vol (m³)	Discharge Vol (m³)	Pipe
									Flow (l/s)
1.000	S45	55.830	55.110	-0.270	0.000	0.00	1.210	81.914	2.3
1.001	S46	55.740	55.111	-0.178	0.000	0.01	12.156	162.280	4.5
1.002	S47	55.750	55.111	-0.122	0.000	0.02	8.699	242.445	6.7
1.003	S48	56.250	55.111	-0.101	0.000	0.03	3.998	325.256	8.9
1.004	S49	56.750	55.111	-0.082	0.000	0.04	3.830	406.211	11.1
1.005	S50	57.000	55.111	-0.056	0.000	0.03	4.991	487.583	13.3
1.006	S51	57.250	55.111	0.005	0.000	0.03	11.183	566.003	15.1
2.000	S52	55.820	55.111	-0.259	0.000	0.01	1.236	94.734	2.7
2.001	S53	55.730	55.111	-0.169	0.000	0.01	12.207	186.089	5.2
3.000	S54	55.740	55.111	-0.179	0.000	0.01	1.440	181.690	5.2
2.002	S55	55.690	55.111	-0.128	0.000	0.03	12.895	472.132	13.1
2.003	S56	56.400	55.111	-0.042	0.000	0.03	14.576	573.840	15.7
1.007	S57	57.250	55.111	0.061	0.000	0.07	28.058	1364.319	36.1
1.008	S58	57.950	55.111	0.188	0.000	0.11	24.057	1406.435	36.3
1.009	S59	57.250	55.110	0.221	0.000	0.12	7.690	1460.201	37.6
1.010	S60	57.200	55.110	0.250	0.000	0.08	6.825	1515.072	38.9
1.011	S61	56.750	55.109	0.315	0.000	0.09	13.477	1563.551	39.8
1.012	S62	55.800	55.108	0.362	0.000	0.09	10.504	1613.004	40.9
1.013	S63	55.800	55.108	0.429	0.000	0.09	14.031	1600.391	40.3
1.014	S64 / FC	55.300	55.107	0.472	0.000	0.01	1079.902	923.022	6.3

PN	US/MH Name	Status
1.000	S45	OK
1.001	S46	OK
1.002	S47	OK
1.003	S48	OK
1.004	S49	OK
1.005	S50	OK
1.006	S51	SURCHARGED
2.000	S52	OK
2.001	S53	OK
3.000	S54	OK
2.002	S55	OK
2.003	S56	OK
1.007	S57	SURCHARGED
1.008	S58	SURCHARGED
1.009	S59	SURCHARGED
1.010	S60	SURCHARGED
1.011	S61	SURCHARGED
1.012	S62	SURCHARGED

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Summary of Results for 1440 minute 100 year Winter (Storm)

	US/MH	
PN	Name	Status
1.013	S63	SURCHARGED
1.014	S64 / FC	FLOOD RISK