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Ormond House Upper Ormond Quay Dublin 7	MCC Offices Network Analysis Catchment 1B+2	
Date 14/04/2023 File 220084_Surface water Ne...	Designed by KMM Checked by JPC	
Innovyze	Network 2020.1	

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

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
S1.000	SDUMMY 15-1-1	79.574	-0.151	0.000	0.24		13.8
S1.001	S15-1	79.381	-0.144	0.000	0.27		14.0
S1.002	S15	79.200	-0.161	0.000	0.18		17.8
S1.003	S14	75.361	-0.148	0.000	0.25		21.6
S1.004	S13	74.752	-0.145	0.000	0.27		25.5
S1.005	S12	73.309	-0.138	0.000	0.32		29.4
S1.006	S11	70.101	-0.124	0.000	0.42		33.2
S1.007	S10	68.026	-0.119	0.000	0.45		36.8
S1.008	S9	67.612	-0.113	0.000	0.49		40.5
S1.009	S8	64.886	-0.121	0.000	0.43		44.1
S2.000	SDUMMY 7-1-1	64.000	-0.225	0.000	0.00		0.0
S2.001	S7-1	63.506	-0.173	0.000	0.12		11.3
S1.010	S7	61.408	-0.106	0.000	0.54		58.9
S1.011	S6	57.665	-0.096	0.000	0.62		62.4
S1.012	S5	56.275	-0.148	0.000	0.51		66.1
S1.013	S4	56.012	-0.711	0.000	0.07		65.2
S1.014	S3	55.985	0.060	0.000	1.24		63.2
S1.015	S2	55.740	-0.054	0.000	0.93		63.3
S1.016	S1	53.212	-0.049	0.000	0.97		63.2

PN	US/MH Name	Status	Level Exceeded
S1.000	SDUMMY 15-1-1	OK	
S1.001	S15-1	OK	
S1.002	S15	OK	
S1.003	S14	OK	
S1.004	S13	OK	
S1.005	S12	OK	
S1.006	S11	OK	
S1.007	S10	OK	
S1.008	S9	OK	
S1.009	S8	OK	
S2.000	SDUMMY 7-1-1	OK	
S2.001	S7-1	OK	
S1.010	S7	OK	
S1.011	S6	OK	
S1.012	S5	OK	
S1.013	S4	OK	
S1.014	S3	SURCHARGED	
S1.015	S2	OK	
S1.016	S1	OK	

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Innovyze	Network 2020.1	

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

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
S1.000	SDUMMY 15-1-1	79.574	-0.151	0.000	0.24		13.8
S1.001	S15-1	79.381	-0.144	0.000	0.27		14.0
S1.002	S15	79.212	-0.149	0.000	0.25		25.3
S1.003	S14	75.386	-0.123	0.000	0.42		36.2
S1.004	S13	74.786	-0.111	0.000	0.50		47.1
S1.005	S12	73.352	-0.095	0.000	0.63		57.7
S1.006	S11	70.162	-0.063	0.000	0.85		67.8
S1.007	S10	68.143	-0.002	0.000	0.95		77.6
S1.008	S9	67.763	0.038	0.000	1.06		86.5
S1.009	S8	64.955	-0.052	0.000	0.93		95.5
S2.000	SDUMMY 7-1-1	64.000	-0.225	0.000	0.00		0.0
S2.001	S7-1	63.506	-0.173	0.000	0.12		11.3
S1.010	S7	62.081	0.567	0.000	1.02		111.0
S1.011	S6	58.141	0.380	0.000	1.17		116.9
S1.012	S5	56.733	0.310	0.000	0.93		121.3
S1.013	S4	56.548	-0.175	0.000	0.12		116.2
S1.014	S3	56.540	0.615	0.000	1.93		98.6
S1.015	S2	56.042	0.248	0.000	1.45		98.9
S1.016	S1	53.579	0.318	0.000	1.51		98.4

PN	US/MH Name	Status	Level Exceeded
S1.000	SDUMMY 15-1-1	OK	
S1.001	S15-1	OK	
S1.002	S15	OK	
S1.003	S14	OK	
S1.004	S13	OK	
S1.005	S12	OK	
S1.006	S11	OK	
S1.007	S10	OK	
S1.008	S9	SURCHARGED	
S1.009	S8	OK	
S2.000	SDUMMY 7-1-1	OK	
S2.001	S7-1	OK	
S1.010	S7	SURCHARGED	
S1.011	S6	SURCHARGED	
S1.012	S5	SURCHARGED	
S1.013	S4	OK	
S1.014	S3	SURCHARGED	
S1.015	S2	SURCHARGED	
S1.016	S1	SURCHARGED	

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) 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	0	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	0.271
Region	Scotland and Ireland	Cv (Summer)	0.750
M5-60 (mm)	16.100	Cv (Winter)	0.830

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	20, 20, 20

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
S1.000	SDUMMY 15-1-1	120 Summer	100	+20%				
S1.001	S15-1	15 Summer	100	+20%				
S1.002	S15	15 Summer	100	+20%				
S1.003	S14	15 Summer	100	+20%				
S1.004	S13	15 Summer	100	+20%				
S1.005	S12	15 Summer	100	+20%				
S1.006	S11	15 Summer	100	+20%	100/15 Summer			
S1.007	S10	15 Summer	100	+20%	100/15 Summer			
S1.008	S9	15 Winter	100	+20%	30/15 Summer			
S1.009	S8	15 Winter	100	+20%	100/15 Summer			
S2.000	SDUMMY 7-1-1	15 Summer	100	+20%				
S2.001	S7-1	15 Winter	100	+20%				
S1.010	S7	15 Winter	100	+20%	30/15 Summer			
S1.011	S6	15 Winter	100	+20%	30/15 Summer			
S1.012	S5	15 Winter	100	+20%	30/15 Summer			
S1.013	S4	15 Winter	100	+20%	100/15 Summer			
S1.014	S3	15 Winter	100	+20%	1/15 Summer			
S1.015	S2	15 Winter	100	+20%	30/15 Summer			
S1.016	S1	15 Winter	100	+20%	30/15 Summer			

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S1.000	SDUMMY 15-1-1	79.574	-0.151	0.000	0.24		13.8
S1.001	S15-1	79.381	-0.144	0.000	0.27		14.0
S1.002	S15	79.218	-0.143	0.000	0.29		28.7
S1.003	S14	75.397	-0.112	0.000	0.50		42.8
S1.004	S13	74.800	-0.097	0.000	0.61		57.0
S1.005	S12	73.371	-0.076	0.000	0.77		70.7
S1.006	S11	70.354	0.129	0.000	1.04		82.9
S1.007	S10	68.534	0.389	0.000	1.13		93.0
S1.008	S9	67.981	0.256	0.000	1.26		103.6
S1.009	S8	65.346	0.339	0.000	1.12		113.9
S2.000	SDUMMY 7-1-1	64.000	-0.225	0.000	0.00		0.0
S2.001	S7-1	63.535	-0.144	0.000	0.13		12.0
S1.010	S7	63.512	1.998	0.000	1.15		124.4
S1.011	S6	58.650	0.889	0.000	1.27		126.8
S1.012	S5	57.155	0.732	0.000	1.01		131.8
S1.013	S4	56.910	0.187	0.000	0.13		126.8
S1.014	S3	56.901	0.976	0.000	2.27		115.9
S1.015	S2	56.223	0.429	0.000	1.70		115.8
S1.016	S1	53.798	0.537	0.000	1.77		115.4

PN	US/MH Name	Status	Level Exceeded
S1.000	SDUMMY 15-1-1	OK	
S1.001	S15-1	OK	
S1.002	S15	OK	
S1.003	S14	OK	
S1.004	S13	OK	
S1.005	S12	OK	
S1.006	S11	SURCHARGED	
S1.007	S10	SURCHARGED	
S1.008	S9	SURCHARGED	
S1.009	S8	SURCHARGED	
S2.000	SDUMMY 7-1-1	OK	
S2.001	S7-1	OK	
S1.010	S7	SURCHARGED	
S1.011	S6	SURCHARGED	
S1.012	S5	SURCHARGED	
S1.013	S4	SURCHARGED	
S1.014	S3	FLOOD RISK	
S1.015	S2	SURCHARGED	
S1.016	S1	SURCHARGED	