

Mayer Brown Limited			Page 1					
Lion House		Littlehampton						
Oriental Road		West Catchment						
Woking, GU22 8AR		Overflow into Phase 4						
Date 01/07/2020		Designed by S Foley						
File West Catchment Model - ...		Checked by SF						
Innovyze		Network 2020.1						
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 Offline Controls 1		Number of Time/Area Diagrams 0				
Number of Online Controls 14		Number of Storage Structures 20		Number of Real Time Controls 0				
Synthetic Rainfall Details								
Rainfall Model		FEH		D3 (1km) 0.407				
FEH Rainfall Version		1999		E (1km) 0.314				
Site Location GB 502850 104400 TQ 02850 04400		F (1km) 2.329						
C (1km)		-0.027		Cv (Summer) 0.750				
D1 (1km)		0.393		Cv (Winter) 0.840				
D2 (1km)		0.274						
Margin for Flood Risk Warning (mm)		300.0						
Analysis Timestep 2.5 Second Increment (Extended)								
DTS Status		ON						
DVD Status		ON						
Inertia Status		ON						
Profile(s) Winter								
Duration(s) (mins)		120						
Return Period(s) (years)		100						
Climate Change (%)		30						
WARNING: Half Drain Time has not been calculated as the structure is too full.								
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	TL_SW01	120 Winter	100	+30%				
1.001	TL_SW02	120 Winter	100	+30%	100/120 Winter			
2.000	Parcel A2_1	120 Winter	100	+30%	100/120 Winter			
2.001	Parcel A2_2	120 Winter	100	+30%	100/120 Winter			
1.002	TL_SW03	120 Winter	100	+30%	100/120 Winter			
3.000	Parcel B6_1	120 Winter	100	+30%	100/120 Winter			
3.001	Parcel B6_2	120 Winter	100	+30%	100/120 Winter			
1.003	TL_SW04	120 Winter	100	+30%	100/120 Winter			
1.004	TL_SW05	120 Winter	100	+30%	100/120 Winter			
4.000	Parcel B1&CH_1	120 Winter	100	+30%	100/120 Winter			
4.001	Parcel B1&CH_2	120 Winter	100	+30%	100/120 Winter			
1.005	Ex. SB10	120 Winter	100	+30%	100/120 Winter			
1.006	Ex. SB9	120 Winter	100	+30%	100/120 Winter			
5.000	Block B_1	120 Winter	100	+30%	100/120 Winter			
5.001	Block B_2	120 Winter	100	+30%	100/120 Winter			
5.002	Ex. SB17	120 Winter	100	+30%	100/120 Winter		100/120 Winter	1
1.007	Ex. SB8	120 Winter	100	+30%	100/120 Winter			
6.000	BovisA_1	120 Winter	100	+30%	100/120 Winter			
6.001	BovisA_2	120 Winter	100	+30%	100/120 Winter			
1.008	Ex SB7	120 Winter	100	+30%	100/120 Winter			
7.000	BovisB_1	120 Winter	100	+30%	100/120 Winter			
7.001	BovisB_2	120 Winter	100	+30%	100/120 Winter			
1.009	Dummy Node	120 Winter	100	+30%	100/120 Winter			
8.000	Plots 123 - 126	120 Winter	100	+30%	100/120 Winter			
9.000	Plots 111 - 116	120 Winter	100	+30%	100/120 Winter			
10.000	Gullies:PH4 SPILL	120 Winter	100	+30%	100/120 Winter	100/120 Winter		
8.001	SW01	120 Winter	100	+30%	100/120 Winter			
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Lion House Oriental Road Woking, GU22 8AR	Littlehampton	
	West Catchment Overflow into Phase 4	
Date 01/07/2020	Designed by S Foley	
File West Catchment Model - ...	Checked by SF	
Innovyze	Network 2020.1	

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.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	TL_SW01	5.395	-0.075	0.000	0.19			13.2	OK	
1.001	TL_SW02	5.378	0.159	0.000	0.30			20.1	SURCHARGED	
2.000	Parcel A2_1	5.920	0.420	0.000	0.04			4.9	SURCHARGED	
2.001	Parcel A2_2	5.927	0.777	0.000	0.33			4.3	SURCHARGED	
1.002	TL_SW03	5.354	0.298	0.000	0.45			29.8	SURCHARGED	
3.000	Parcel B6_1	5.907	0.607	0.000	0.06			6.2	SURCHARGED	
3.001	Parcel B6_2	5.907	0.957	0.000	0.45			5.8	SURCHARGED	
1.003	TL_SW04	5.269	0.334	0.000	0.57			39.8	SURCHARGED	
1.004	TL_SW05	5.174	0.539	0.000	0.86			61.8	SURCHARGED	
4.000	Parcel B1&CH_1	4.886	0.386	0.000	0.19			10.6	SURCHARGED	
4.001	Parcel B1&CH_2	4.995	0.710	0.000	0.62			8.2	SURCHARGED	
1.005	Ex. SB10	4.874	0.664	0.000	0.94			64.3	SURCHARGED	
1.006	Ex. SB9	4.759	0.689	0.000	1.10			78.4	SURCHARGED	
5.000	Block B_1	5.142	0.342	0.000	0.05			8.2	SURCHARGED	
5.001	Block B_2	5.146	1.091	0.000	0.40			5.5	SURCHARGED	
5.002	Ex. SB17	4.350	0.400	0.000	0.17	56.7		11.0	SURCHARGED	
1.007	Ex. SB8	4.452	0.652	0.000	1.09			67.7	SURCHARGED	
6.000	BovisA_1	4.871	0.396	0.000	0.48		55	56.5	SURCHARGED	
6.001	BovisA_2	5.285	0.910	0.000	0.16			57.1	SURCHARGED	
1.008	Ex SB7	4.267	0.767	0.000	0.88			119.4	SURCHARGED	
7.000	BovisB_1	4.316	0.541	0.000	0.30		74	47.2	SURCHARGED	
7.001	BovisB_2	4.272	0.672	0.000	0.19			47.3	SURCHARGED	
1.009	Dummy Node	4.017	0.842	0.000	1.05			135.8	SURCHARGED	
8.000	Plots 123 - 126	3.997	0.692	0.000	0.73			6.4	FLOOD RISK	
9.000	Plots 111 - 116	3.981	0.695	0.000	0.67			9.0	FLOOD RISK	
10.000	Gullies:PH4 SPILL	3.899	0.554	48.735	0.68			26.4	FLOOD	1
8.001	SW01	3.965	0.700	0.000	1.16			26.7	FLOOD RISK	

48.8m3 overflow
from Phase 2 into
Phase 4.

HAMPTON PARK, LITTLEHAMPTON

PHASE 4 CATCHMENT 03 WINDES PLAN



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Lion House Oriental Road Woking, GU22 8AR	Hampton Park, Littlehampton Phase 4 Catchment 03 Network Details	
Date 01/07/2020	Designed by SF	
File Phase 4 Catchment 03_06...	Checked by SF	
Innovyze		Network 2020.1

Existing Network Details for Storm

* - Indicates pipe has been modified outside of System 1

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
* 1.000	14.566	0.000	0.0	0.000	5.00	0.600	\	27	Pipe/Conduit
* 2.000	19.169	0.140	136.9	0.048	5.00	0.600	o	225	Pipe/Conduit
* 2.001	23.083	0.150	153.9	0.048	5.00	0.600	o	225	Pipe/Conduit
* 2.002	10.543	0.070	150.6	0.048	0.00	0.600	o	225	Pipe/Conduit
* 2.003	24.538	0.160	153.4	0.048	0.00	0.600	o	225	Pipe/Conduit
* 2.004	56.138	0.370	151.7	0.048	0.00	0.600	o	225	Pipe/Conduit
* 3.000	17.792	0.110	161.7	0.048	5.00	0.600	o	150	Pipe/Conduit
* 3.001	59.139	0.300	197.1	0.048	5.00	0.600	o	225	Pipe/Conduit
* 3.002	41.368	0.200	206.8	0.048	5.00	0.600	o	225	Pipe/Conduit
* 2.005	3.480	0.190	18.3	0.051	0.00	0.600	o	300	Pipe/Conduit
* 2.006	6.792	0.200	34.0	0.000	0.00	0.600	o	225	Pipe/Conduit
* 2.007	14.044	0.050	280.9	0.000	0.00	0.600	\	27	Pipe/Conduit
* 1.001	22.887	0.000	0.0	0.000	0.00	0.600	\	27	Pipe/Conduit

PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
* 1.000	CWA Swale	1.380	1.000	-0.073	1.380	1.000	-0.073		1800
* 2.000	PH4-S1	3.800	2.390	1.185	3.630	2.250	1.155		1200
* 2.001	PH4-S2	3.630	2.250	1.155	3.710	2.100	1.385		1200
* 2.002	PH4-S3	3.710	2.100	1.385	3.820	2.030	1.565		1200
* 2.003	PH4-S4	3.820	2.030	1.565	3.930	1.870	1.835		1200
* 2.004	PH4-S5	3.930	1.870	1.835	3.580	1.500	1.855		1200
* 3.000	PH4-S6/1	3.460	2.180	1.130	3.620	2.070	1.400		1200
* 3.001	PH4-S6	3.620	2.000	1.395	3.820	1.700	1.895		1200
* 3.002	PH4-S7	3.820	1.700	1.895	3.580	1.500	1.855		1200
* 2.005	PH4-S8	3.580	1.440	1.840	3.650	1.250	2.100		1200
* 2.006	PH4-S9_Control MH	3.650	1.250	2.175	1.380	1.050	0.105	Hydro-Brake®	1200
* 2.007	Outfall	1.380	1.050	-0.123	1.380	1.000	-0.073		1200
* 1.001	CWA Swale	1.380	1.000	-0.073	1.380	1.000	-0.073		1800

Simulation Criteria for Storm

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

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

Synthetic Rainfall Details

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Lion House	Hampton Park, Littlehampton	
Oriental Road	Phase 4 Catchment 03	
Woking, GU22 8AR	Network Details	
Date 01/07/2020	Designed by SF	
File Phase 4 Catchment 03_06...	Checked by SF	
Innovyze	Network 2020.1	
<u>Synthetic Rainfall Details</u>		
Rainfall Model	FEH	E (1km) 0.314
Return Period (years)	2	F (1km) 2.329
FEH Rainfall Version	1999	Summer Storms No
Site Location	GB 502850 104400 TQ 02850 04400	Winter Storms Yes
C (1km)	-0.027	Cv (Summer) 0.750
D1 (1km)	0.393	Cv (Winter) 1.000
D2 (1km)	0.274	Storm Duration (mins) 30
D3 (1km)	0.407	
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Lion House Oriental Road Woking, GU22 8AR	Hampton Park, Littlehampton Phase 4 Catchment 03 Network Details	
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Storage Structures for Storm

Cellular Storage Manhole: PH4-S9 Control MH, DS/PN: 2.006

Invert Level (m) 1.300 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	150.0	150.0	1.500	150.0	255.0	1.501	0.0	255.0

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Lion House Oriental Road Woking, GU22 8AR		Hampton Park, Littlehampton Phase 4 Catchment 03 Simulation Results							
Date 01/07/2020 File Phase 4 Catchment 03_06...		Designed by SF Checked by SF							
Innovyze		Network 2020.1							
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 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 Online Controls		1	Number of Storage Structures		1				
			Number of Time/Area Diagrams		0				
			Number of Real Time Controls		0				
Synthetic Rainfall Details									
Rainfall Model		FEH		D3 (1km)	0.407				
FEH Rainfall Version		1999		E (1km)	0.314				
Site Location		GB 502850 104400 TQ 02850	04400	F (1km)	2.329				
C (1km)		-0.027		Cv (Summer)	0.750				
D1 (1km)		0.393		Cv (Winter)	1.000				
D2 (1km)		0.274							
Margin for Flood Risk Warning (mm)		300.0							
Analysis Timestep		2.5 Second Increment (Extended)							
DTS Status		ON							
DVD Status		ON							
Inertia Status		ON							
Profile(s)		Winter							
Duration(s) (mins)		15, 30, 60, 120, 240, 360, 480, 960, 1440							
Return Period(s) (years)		1							
Climate Change (%)		0							
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	CWA Swale	480 Winter	1	+0%		1/15 Winter			1.406
2.000	PH4-S1	15 Winter	1	+0%					2.449
2.001	PH4-S2	15 Winter	1	+0%					2.337
2.002	PH4-S3	15 Winter	1	+0%					2.211
2.003	PH4-S4	15 Winter	1	+0%					2.153
2.004	PH4-S5	15 Winter	1	+0%					2.005
3.000	PH4-S6/1	15 Winter	1	+0%					2.253
3.001	PH4-S6	15 Winter	1	+0%					2.091
3.002	PH4-S7	15 Winter	1	+0%					1.813
2.005	PH4-S8	15 Winter	1	+0%					1.578
2.006	PH4-S9_Control MH	240 Winter	1	+0%	1/60 Winter				1.530
2.007	Outfall	480 Winter	1	+0%		1/15 Winter			1.406
1.001	CWA Swale	480 Winter	1	+0%		1/15 Winter			1.406
PN	US/MH Name	Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	CWA Swale	-0.047	25.729	0.35			58.8	FLOOD	9
2.000	PH4-S1	-0.166	0.000	0.15			6.0	OK	
2.001	PH4-S2	-0.138	0.000	0.31			12.1	OK	
2.002	PH4-S3	-0.114	0.000	0.48			17.2	OK	
2.003	PH4-S4	-0.102	0.000	0.57			21.8	OK	
2.004	PH4-S5	-0.090	0.000	0.64			25.9	OK	
3.000	PH4-S6/1	-0.077	0.000	0.46			6.0	OK	
3.001	PH4-S6	-0.134	0.000	0.32			11.4	OK	
3.002	PH4-S7	-0.112	0.000	0.49			16.6	OK	
2.005	PH4-S8	-0.162	0.000	0.43			47.0	OK	
2.006	PH4-S9_Control MH	0.055	0.000	0.13		138	8.2	SURCHARGED	
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Lion House Oriental Road Woking, GU22 8AR	Hampton Park, Littlehampton Phase 4 Catchment 03 Simulaton Results	
Date 01/07/2020	Designed by SF	
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Innovyze	Network 2020.1	

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

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
2.007	Outfall	-0.097	25.733	0.13			54.6	FLOOD	9
1.001	CWA Swale	-0.047	25.756	1.20			206.9	FLOOD	9

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Innovyze	Network 2020.1	

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

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
2.007	Outfall	-0.053	70.483	0.15			63.0	FLOOD	9
1.001	CWA Swale	-0.002	70.501	1.38			238.2	FLOOD	9

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

Synthetic Rainfall Details

Rainfall Model FEH D3 (1km) 0.407
 FEH Rainfall Version 1999 E (1km) 0.314
 Site Location GB 502850 104400 TQ 02850 04400 F (1km) 2.329
 C (1km) -0.027 Cv (Summer) 0.750
 D1 (1km) 0.393 Cv (Winter) 1.000
 D2 (1km) 0.274

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

Profile(s) Winter
 Duration(s) (mins) 60, 120, 240, 360, 480, 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.	Water Level (m)
1.000	CWA Swale	480 Winter	100	+0%	100/240 Winter	100/60 Winter			1.478
2.000	PH4-S1	60 Winter	100	+0%	100/60 Winter				3.179
2.001	PH4-S2	60 Winter	100	+0%	100/60 Winter				3.155
2.002	PH4-S3	60 Winter	100	+0%	100/60 Winter				3.081
2.003	PH4-S4	60 Winter	100	+0%	100/60 Winter				2.997
2.004	PH4-S5	60 Winter	100	+0%	100/60 Winter				2.777
3.000	PH4-S6/1	60 Winter	100	+0%	100/60 Winter				2.468
3.001	PH4-S6	120 Winter	100	+0%	100/60 Winter				2.415
3.002	PH4-S7	120 Winter	100	+0%	100/60 Winter				2.387
2.005	PH4-S8	120 Winter	100	+0%	100/60 Winter				2.352
2.006	PH4-S9_Control MH	120 Winter	100	+0%	100/60 Winter				2.333
2.007	Outfall	480 Winter	100	+0%		100/60 Winter			1.478
1.001	CWA Swale	480 Winter	100	+0%	100/240 Winter	100/60 Winter			1.478

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	CWA Swale	0.025	98.038	0.35			58.8	FLOOD	7
2.000	PH4-S1	0.564	0.000	0.29			11.6	SURCHARGED	
2.001	PH4-S2	0.680	0.000	0.60			23.2	SURCHARGED	
2.002	PH4-S3	0.756	0.000	0.97			34.4	SURCHARGED	
2.003	PH4-S4	0.742	0.000	1.19			45.8	SURCHARGED	
2.004	PH4-S5	0.682	0.000	1.41			57.1	SURCHARGED	
3.000	PH4-S6/1	0.138	0.000	1.07			13.9	SURCHARGED	
3.001	PH4-S6	0.190	0.000	0.48			17.2	SURCHARGED	
3.002	PH4-S7	0.462	0.000	0.66			22.7	SURCHARGED	
2.005	PH4-S8	0.612	0.000	0.62			68.0	SURCHARGED	
2.006	PH4-S9_Control MH	0.858	0.000	0.21		117	13.0	SURCHARGED	

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

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
2.007	Outfall	-0.025	98.319	0.18			76.7	FLOOD	7
1.001	CWA Swale	0.025	98.045	1.70			293.3	FLOOD	7

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Synthetic Rainfall Details Rainfall Model FEH D3 (1km) 0.407 FEH Rainfall Version 1999 E (1km) 0.314 Site Location GB 502850 104400 TQ 02850 04400 F (1km) 2.329 C (1km) -0.027 Cv (Summer) 0.750 D1 (1km) 0.393 Cv (Winter) 1.000 D2 (1km) 0.274 Margin for Flood Risk Warning (mm) 300.0 Analysis Timestep 2.5 Second Increment (Extended) DTS Status ON DVD Status ON Inertia Status ON Profile(s) Winter Duration(s) (mins) 60, 120, 240, 360, 480, 960, 1440 Return Period(s) (years) 100 Climate Change (%) 30																																																																																																																																																					
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Mayer Brown Limited		Page 2
Lion House Oriental Road Woking, GU22 8AR	Hampton Park, Littlehampton Phase 4 Catchment 03 Simulaton Results	
Date 01/07/2020	Designed by SF	
File Phase 4 Catchment 03_06...	Checked by SF	
Innovyze	Network 2020.1	

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

PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
2.007	Outfall	0.000	123.000	0.18			76.6	FLOOD	7
1.001	CWA Swale	0.042	114.829	1.71			294.8	FLOOD	7