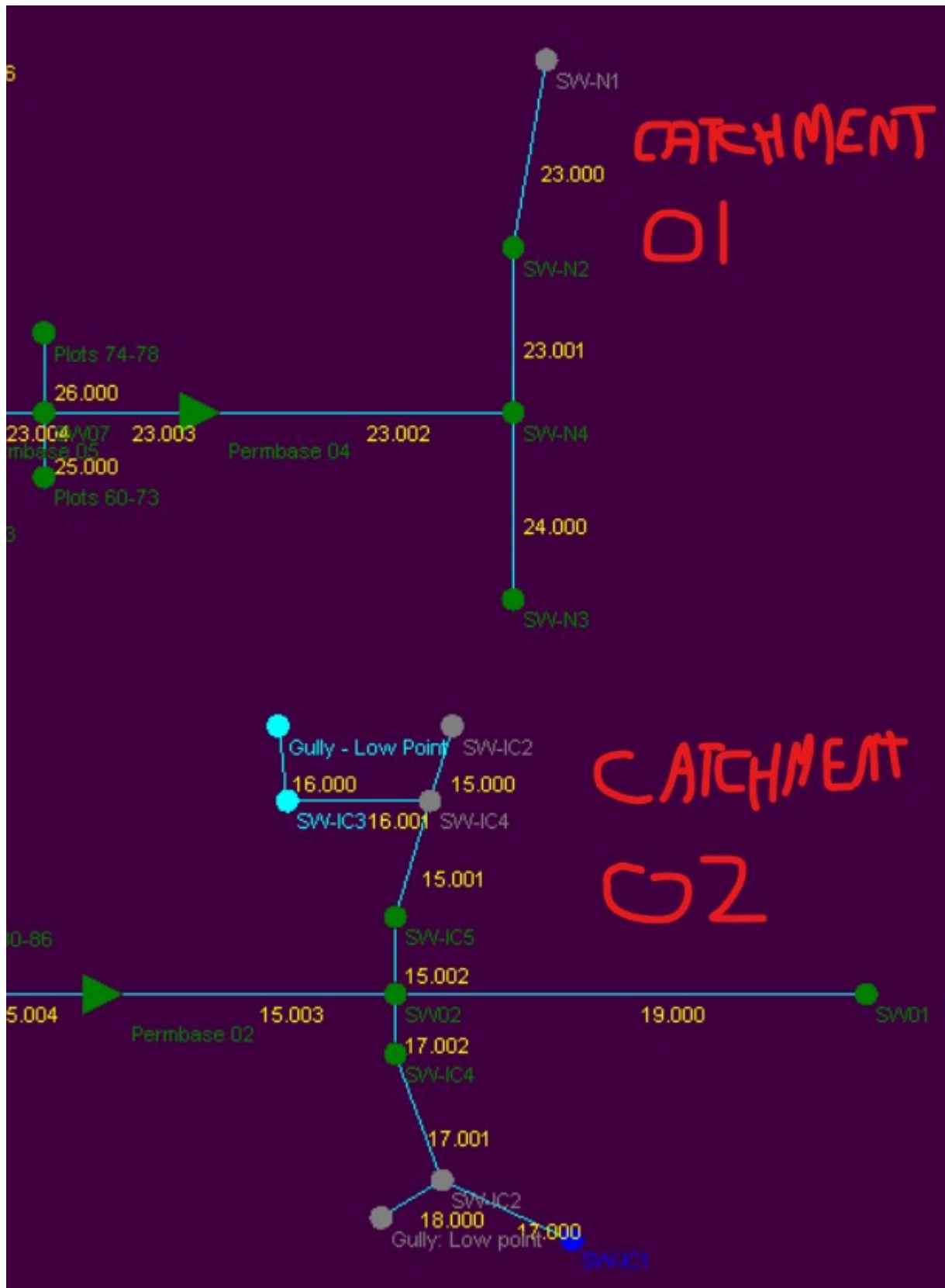


HAMPTON PARK, LITTLEHAMPTON (Dec 2020)

PHASE 4 CATCHMENT 01 & 02 WINDES PLAN (within overall west of wetlands model)



Mayer Brown Limited			Page 1					
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						
<u>Summary of Critical Results by Maximum Outflow (Rank 1) for Storm</u>								
<u>Simulation Criteria</u>								
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 1					
Number of Online Controls		14	Number of Storage Structures 20					
			Number of Time/Area Diagrams 0					
			Number of Real Time Controls 0					
<u>Synthetic Rainfall Details</u>								
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, 240, 480						
Return Period(s) (years)		100						
Climate Change (%)		30						
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	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	480 Winter	100	+30%	100/120 Winter			
2.001	Parcel A2_2	480 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	480 Winter	100	+30%	100/120 Winter			
4.001	Parcel B1&CH_2	240 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	240 Winter	100	+30%	100/120 Winter			
5.002	Ex. SB17	120 Winter	100	+30%	100/120 Winter		100/120 Winter	3
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	240 Winter	100	+30%	100/120 Winter			
7.001	BovisB_2	240 Winter	100	+30%	100/120 Winter			
1.009	Dummy Node	480 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	240 Winter	100	+30%	100/120 Winter	100/120 Winter		
8.001	SW01	240 Winter	100	+30%	100/120 Winter			
8.002	Permbase 01	240 Winter	100	+30%	100/120 Winter			
11.000	Plots 117 - 122	480 Winter	100	+30%	100/120 Winter			
11.001	Stub SW02/2	120 Winter	100	+30%	100/120 Winter			
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Mayer Brown Limited							Page 2			
Lion House Oriental Road Woking, GU22 8AR				Littlehampton West Catchment Overflow into Phase 4						
Date 01/07/2020 File West Catchment Model - ...				Designed by S Foley Checked by SF						
Innovyze				Network 2020.1						
Summary of Critical Results by Maximum Outflow (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	5.399	-0.071	0.000	0.19			13.2	OK	
1.001	TL_SW02	5.382	0.163	0.000	0.30			20.1	SURCHARGED	
2.000	Parcel A2_1	6.080	0.580	0.000	0.05			5.1	SURCHARGED	
2.001	Parcel A2_2	6.088	0.938	0.000	0.36			4.7	SURCHARGED	
1.002	TL_SW03	5.360	0.304	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	5.276	0.341	0.000	0.57			39.4	SURCHARGED	
1.004	TL_SW05	5.179	0.544	0.000	0.86			61.8	SURCHARGED	
4.000	Parcel B1&CH_1	4.819	0.319	0.000	0.26		314	14.3	SURCHARGED	
4.001	Parcel B1&CH_2	4.988	0.703	0.000	0.62			8.3	SURCHARGED	
1.005	Ex. SB10	4.885	0.675	0.000	0.94			64.0	SURCHARGED	
1.006	Ex. SB9	4.767	0.697	0.000	1.10			78.2	SURCHARGED	
5.000	Block B_1	5.142	0.342	0.000	0.05			8.2	SURCHARGED	
5.001	Block B_2	5.196	1.141	0.000	0.40			5.6	SURCHARGED	
5.002	Ex. SB17	4.357	0.407	0.000	0.17	56.9		11.0	SURCHARGED	
1.007	Ex. SB8	4.446	0.646	0.000	1.08			67.3	SURCHARGED	
6.000	BovisA_1	4.881	0.406	0.000	0.49		56	57.4	SURCHARGED	
6.001	BovisA_2	5.252	0.877	0.000	0.16			57.1	SURCHARGED	
1.008	Ex SB7	4.278	0.778	0.000	0.87			118.9	SURCHARGED	
7.000	BovisB_1	4.273	0.498	0.000	0.31		92	48.0	SURCHARGED	
7.001	BovisB_2	4.258	0.658	0.000	0.19			49.5	SURCHARGED	
1.009	Dummy Node	3.925	0.750	0.000	1.09			140.2	SURCHARGED	
8.000	Plots 123 - 126	4.002	0.697	0.000	0.72			6.3	FLOOD RISK	
9.000	Plots 111 - 116	3.985	0.699	0.000	0.68			9.2	FLOOD RISK	
10.000	Gullies:PH4 SPILL	3.916	0.571	66.140	0.82			31.6	FLOOD	3
8.001	SW01	3.951	0.686	0.000	1.38			31.9	FLOOD RISK	
8.002	Permbase 01	3.986	0.741	0.000	1.19		116	38.1	FLOOD RISK	
11.000	Plots 117 - 122	3.931	0.616	0.000	0.02			0.3	FLOOD RISK	
11.001	Stub SW02/2	4.100	1.007	0.000	0.71			21.3	SURCHARGED	
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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
12.000	Plots 101-110	120 Winter	100	+30%	100/120 Winter			
8.003	SW02	240 Winter	100	+30%	100/120 Winter			
1.010	Ex SB6	120 Winter	100	+30%	100/120 Winter			
13.000	Ret Block A	480 Winter	100	+30%	100/120 Winter			
13.001	Ret Block A	480 Winter	100	+30%	100/120 Winter			
14.000	Plots 95-100	120 Winter	100	+30%	100/120 Winter			
1.011	SW03	120 Winter	100	+30%	100/120 Winter			
1.012	SW04	120 Winter	100	+30%	100/120 Winter			
15.000	SW-IC2	120 Winter	100	+30%	100/120 Winter			
16.000	Gully - Low Point	120 Winter	100	+30%	100/120 Winter	100/120 Winter		
16.001	SW-IC3	120 Winter	100	+30%	100/120 Winter	100/120 Winter		
15.001	SW-IC4	120 Winter	100	+30%	100/120 Winter			
15.002	SW-IC5	120 Winter	100	+30%	100/120 Winter			
17.000	SW-IC1	120 Winter	100	+30%	100/120 Winter	100/120 Winter		
18.000	Gully: Low point	120 Winter	100	+30%	100/120 Winter	100/120 Winter		
17.001	SW-IC2	120 Winter	100	+30%	100/120 Winter			
17.002	SW-IC4	120 Winter	100	+30%	100/120 Winter			
19.000	SW01	120 Winter	100	+30%	100/120 Winter			
15.003	SW02	120 Winter	100	+30%	100/120 Winter			
15.004	Permbase 02	120 Winter	100	+30%	100/120 Winter			
20.000	Plots 80-86	120 Winter	100	+30%	100/120 Winter			
21.000	Plots 87-94	120 Winter	100	+30%	100/120 Winter			
1.013	SW05	120 Winter	100	+30%	100/120 Winter			
22.000	C2 Resiblock A	120 Winter	100	+30%	100/120 Winter			
1.014	SW06	120 Winter	100	+30%	100/120 Winter			
1.015	Permbase 03	120 Winter	100	+30%	100/120 Winter			
23.000	SW-N1	120 Winter	100	+30%	100/120 Winter			
23.001	SW-N2	120 Winter	100	+30%	100/120 Winter			
24.000	SW-N3	120 Winter	100	+30%	100/120 Winter			
23.002	SW-N4	120 Winter	100	+30%	100/120 Winter			
23.003	Permbase 04	120 Winter	100	+30%	100/120 Winter			
25.000	Plots 60-73	120 Winter	100	+30%	100/120 Winter			
26.000	Plots 74-78	120 Winter	100	+30%	100/120 Winter			
23.004	SW07	120 Winter	100	+30%	100/120 Winter			
23.005	Permbase 05	120 Winter	100	+30%	100/120 Winter			
27.000	Plots 39-46	120 Winter	100	+30%	100/240 Winter			
28.000	SW-LYM 01	120 Winter	100	+30%	100/120 Winter			
29.000	Non resi	240 Winter	100	+30%	100/120 Winter			
29.001	Non resi	480 Winter	100	+30%	100/120 Winter	100/480 Winter		
28.001	SW-LYM 02	120 Winter	100	+30%	100/120 Winter			
30.000	Parcel A1	120 Winter	100	+30%	100/120 Winter			
30.001	As-built SA8	240 Winter	100	+30%	100/120 Winter			
31.000	Non Resi	240 Winter	100	+30%	100/120 Winter			
31.001	SW Stub 02	480 Winter	100	+30%	100/120 Winter			
30.002	SW-LYM 03/1	480 Winter	100	+30%	100/120 Winter			
28.002	SW-LYM 03	120 Winter	100	+30%	100/120 Winter			
28.003	SW-LYM 04	120 Winter	100	+30%	100/120 Winter			
32.000	SW-LYM 07	120 Winter	100	+30%	100/120 Winter			
32.001	SW-LYM 08	120 Winter	100	+30%	100/120 Winter			
33.000	SW-LYM 05A	120 Winter	100	+30%				
33.001	SW-LYM 05	120 Winter	100	+30%	100/120 Winter			
28.004	SW-LYM 10	120 Winter	100	+30%	100/120 Winter			
28.005	SW-LYM11	120 Winter	100	+30%	100/120 Winter			
34.000	ExSB17_Dum Node	120 Winter	100	+30%	100/120 Winter			
28.006	SW-LYM 12	120 Winter	100	+30%	100/120 Winter			
28.007	SW-FUT-03	120 Winter	100	+30%	100/120 Winter			
35.000	Stub SW18/1	120 Winter	100	+30%	100/120 Winter			
35.001	SW18	120 Winter	100	+30%	100/120 Winter			
28.008	SW19	120 Winter	100	+30%	100/120 Winter			
28.009	SW20	120 Winter	100	+30%	100/120 Winter			
36.000	Car Park	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						
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Summary of Critical Results by Maximum Outflow (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
12.000	Plots 101-110	4.099	0.874	0.000	0.56			19.8	SURCHARGED	
8.003	SW02	4.075	1.020	0.000	1.44			38.5	FLOOD RISK	
1.010	Ex SB6	4.034	0.959	0.000	0.83			157.1	SURCHARGED	
13.000	Ret Block A	3.841	0.541	0.000	0.27			13.7	SURCHARGED	
13.001	Ret Block A	4.108	1.058	0.000	0.27			4.8	SURCHARGED	
14.000	Plots 95-100	3.926	0.701	0.000	0.32			14.4	SURCHARGED	
1.011	SW03	3.918	0.998	0.000	0.78			172.3	SURCHARGED	
1.012	SW04	3.786	1.046	0.000	0.86			180.6	SURCHARGED	
15.000	SW-IC2	3.897	0.807	0.000	0.15			1.9	FLOOD RISK	
16.000	Gully - Low Point	3.901	0.651	1.039	0.35			5.7	FLOOD	1
16.001	SW-IC3	3.900	0.750	0.041	0.69			9.6	FLOOD	1
15.001	SW-IC4	3.889	0.859	0.000	0.98			13.2	FLOOD RISK	
15.002	SW-IC5	3.863	0.933	0.000	1.11			15.2	FLOOD RISK	
17.000	SW-IC1	3.900	0.410	0.001	0.08			2.1	FLOOD	1
18.000	Gully: Low point	3.900	0.800	0.400	0.56			9.0	FLOOD	1
17.001	SW-IC2	3.891	0.881	0.000	0.98			13.3	FLOOD RISK	
17.002	SW-IC4	3.862	0.962	0.000	1.37			15.5	SURCHARGED	
19.000	SW01	3.876	0.611	0.000	0.41			17.3	SURCHARGED	
15.003	SW02	3.834	0.974	0.000	0.97			62.0	FLOOD RISK	
15.004	Permbase 02	3.744	1.024	0.000	0.77		62	50.0	FLOOD RISK	
20.000	Plots 80-86	3.719	1.019	0.000	0.82			18.8	SURCHARGED	
21.000	Plots 87-94	3.671	0.844	0.000	0.29			22.2	SURCHARGED	
1.013	SW05	3.658	1.058	0.000	1.40			259.6	SURCHARGED	
22.000	C2 Resiblock A	3.445	0.900	0.000	0.47			34.2	SURCHARGED	
1.014	SW06	3.439	0.999	0.000	1.73			290.9	FLOOD RISK	
1.015	Permbase 03	3.339	0.989	0.000	2.68		29	379.8	FLOOD RISK	
23.000	SW-N1	3.317	0.402	0.000	0.31			12.0	SURCHARGED	
23.001	SW-N2	3.315	0.550	0.000	0.53			20.8	SURCHARGED	
24.000	SW-N3	3.313	0.438	0.000	0.32			16.0	SURCHARGED	
23.002	SW-N4	3.311	0.681	0.000	0.62			40.8	SURCHARGED	
23.003	Permbase 04	3.306	0.831	0.000	0.65		17	39.4	SURCHARGED	
25.000	Plots 60-73	3.306	0.556	0.000	1.66			18.1	SURCHARGED	
26.000	Plots 74-78	3.307	0.557	0.000	1.34			21.6	SURCHARGED	
23.004	SW07	3.302	0.902	0.000	1.43			79.7	SURCHARGED	
23.005	Permbase 05	3.298	0.943	0.000	1.38		19	80.1	SURCHARGED	
27.000	Plots 39-46	3.323	-0.067	0.000	0.27			15.9	OK	
28.000	SW-LYM 01	4.503	0.538	0.000	0.33			9.9	SURCHARGED	
29.000	Non resi	4.840	0.390	0.000	0.10			24.2	SURCHARGED	
29.001	Non resi	5.189	1.244	0.018	0.14			5.0	FLOOD	
28.001	SW-LYM 02	4.478	0.613	0.000	0.53			18.1	SURCHARGED	
30.000	Parcel A1	4.478	0.028	0.000	0.12		105	26.9	SURCHARGED	
30.001	As-built SA8	4.469	0.481	0.000	0.62			24.8	SURCHARGED	
31.000	Non Resi	4.795	0.345	0.000	0.05			14.5	SURCHARGED	
31.001	SW Stub 02	5.133	1.268	0.000	0.13			4.8	SURCHARGED	
30.002	SW-LYM 03/1	4.193	0.398	0.000	0.71			30.4	SURCHARGED	
28.002	SW-LYM 03	4.426	0.851	0.000	1.45			48.3	SURCHARGED	
28.003	SW-LYM 04	4.362	0.837	0.000	0.83			51.7	SURCHARGED	
32.000	SW-LYM 07	4.417	0.322	0.000	0.26			11.0	SURCHARGED	
32.001	SW-LYM 08	4.393	0.498	0.000	0.48			29.3	SURCHARGED	
33.000	SW-LYM 05A	7.340	-0.160	0.000	0.45			62.5	FLOOD RISK	
33.001	SW-LYM 05	6.007	0.167	0.000	3.08			76.4	SURCHARGED	
28.004	SW-LYM 10	4.278	0.913	0.000	1.09			142.5	SURCHARGED	
28.005	SW-LYM11	4.040	0.910	0.000	1.01			184.7	SURCHARGED	
34.000	ExSB17_Dum Node	4.221	0.296	0.000	0.81			55.9	SURCHARGED	
28.006	SW-LYM 12	3.894	0.924	0.000	0.98			243.0	SURCHARGED	
28.007	SW-FUT-03	3.672	0.982	0.000	1.29			249.5	SURCHARGED	
35.000	Stub SW18/1	3.673	0.948	0.000	1.18			39.4	SURCHARGED	
35.001	SW18	3.555	0.950	0.000	1.33			46.5	SURCHARGED	
28.008	SW19	3.533	1.113	0.000	1.30			302.9	SURCHARGED	
28.009	SW20	3.372	1.087	0.000	1.48			301.3	SURCHARGED	
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Lion House Oriental Road Woking, GU22 8AR				Littlehampton West Catchment Overflow into Phase 4						
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<u>Summary of Critical Results by Maximum Outflow (Rank 1) for Storm</u>										
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
36.000	Car Park	4.698	0.748	0.000	0.05			9.7	SURCHARGED	
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Lion House Oriental Road Woking, GU22 8AR				Littlehampton West Catchment Overflow into Phase 4					
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Summary of Critical Results by Maximum Outflow (Rank 1) for Storm									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
36.001	Car Park	240 Winter	100	+30%	100/120 Winter				4.754
37.000	Non Resi	480 Winter	100	+30%	100/120 Winter				3.657
37.001	Stub SW9/1	480 Winter	100	+30%	100/120 Winter				3.862
38.000	SW08	120 Winter	100	+30%					3.618
39.000	Non Resi	120 Winter	100	+30%	100/120 Winter				3.558
39.001	Stub SW9/2	480 Winter	100	+30%	100/120 Winter				3.640
40.000	Plots 1 - 4	120 Winter	100	+30%					4.342
37.002	SW09	120 Winter	100	+30%	100/120 Winter				3.391
41.000	SW12	120 Winter	100	+30%	100/120 Winter				3.522
41.001	SW13	120 Winter	100	+30%	100/120 Winter				3.508
41.002	SW14	120 Winter	100	+30%	100/120 Winter				3.481
41.003	SW15	120 Winter	100	+30%	100/120 Winter				3.421
42.000	Plots 16-22	120 Winter	100	+30%					3.487
37.003	SW16	120 Winter	100	+30%	100/120 Winter				3.357
37.004	SW17	120 Winter	100	+30%	100/120 Winter				3.352
28.010	SW21	240 Winter	100	+30%	100/120 Winter				3.531
27.001	SW22	240 Winter	100	+30%	100/120 Winter				3.523
43.000	Plots 47-55	120 Winter	100	+30%	100/120 Winter				3.305
27.002	SW23	240 Winter	100	+30%	100/120 Winter				3.500
1.016	SW24	120 Winter	100	+30%	100/120 Winter				3.310
1.017	Permbase 06	480 Winter	100	+30%	100/120 Winter				3.273
44.000	Plots	120 Winter	100	+30%	100/120 Winter				3.136
44.001	Stub SW25/1	120 Winter	100	+30%	100/120 Winter				3.191
45.000	Stub SW25/2	120 Winter	100	+30%	100/120 Winter				3.165
1.018	SW25	480 Winter	100	+30%	100/120 Winter				3.323
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
36.001	Car Park	1.204	0.000	0.11			4.6	FLOOD RISK	
37.000	Non Resi	0.507	0.000	0.05			9.5	SURCHARGED	
37.001	Stub SW9/1	1.037	0.000	0.12			4.6	SURCHARGED	
38.000	SW08	-0.157	0.000	0.20			19.1	OK	
39.000	Non Resi	0.408	0.000	0.02			5.6	SURCHARGED	
39.001	Stub SW9/2	0.915	0.000	0.10			4.5	SURCHARGED	
40.000	Plots 1 - 4	-0.118	0.000	0.10			5.4	OK	
37.002	SW09	0.766	0.000	0.93			37.5	SURCHARGED	
41.000	SW12	0.507	0.000	0.38			12.8	SURCHARGED	
41.001	SW13	0.603	0.000	0.64			25.5	SURCHARGED	
41.002	SW14	0.656	0.000	0.83			38.0	SURCHARGED	
41.003	SW15	0.951	0.000	0.82			50.8	SURCHARGED	
42.000	Plots 16-22	-0.103	0.000	0.22			13.6	OK	
37.003	SW16	0.957	0.000	0.76			100.2	SURCHARGED	
37.004	SW17	1.082	0.000	0.60			99.4	SURCHARGED	
28.010	SW21	0.971	0.000	0.38			225.4	SURCHARGED	
27.001	SW22	0.993	0.000	0.24			200.4	SURCHARGED	
43.000	Plots 47-55	0.580	0.000	1.07			24.5	SURCHARGED	
27.002	SW23	1.105	0.000	0.26			196.4	SURCHARGED	
1.016	SW24	1.000	0.000	0.48			375.6	SURCHARGED	
1.017	Permbase 06	1.073	0.000	0.56		165	282.1	SURCHARGED	
44.000	Plots	0.541	0.000	0.53			21.2	SURCHARGED	
44.001	Stub SW25/1	0.976	0.000	2.89			36.1	SURCHARGED	
45.000	Stub SW25/2	0.900	0.000	1.25			30.9	SURCHARGED	
1.018	SW25	1.598	0.000	0.83			284.8	FLOOD RISK	
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Lion House Oriental Road Woking, GU22 8AR			Littlehampton West Catchment Overflow into Phase 4					
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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 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		1			
Number of Online Controls		14	Number of Storage Structures		20			
			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)	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, 240, 480						
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	TL_SW01	120 Winter	100	+0%				
1.001	TL_SW02	120 Winter	100	+0%				
2.000	Parcel A2_1	480 Winter	100	+0%	100/120 Winter			
2.001	Parcel A2_2	480 Winter	100	+0%	100/120 Winter			
1.002	TL_SW03	120 Winter	100	+0%				
3.000	Parcel B6_1	120 Winter	100	+0%	100/120 Winter			
3.001	Parcel B6_2	120 Winter	100	+0%	100/120 Winter			
1.003	TL_SW04	120 Winter	100	+0%				
1.004	TL_SW05	120 Winter	100	+0%	100/120 Winter			
4.000	Parcel B1&CH_1	120 Winter	100	+0%	100/120 Winter			
4.001	Parcel B1&CH_2	120 Winter	100	+0%	100/120 Winter			
1.005	Ex. SB10	120 Winter	100	+0%	100/120 Winter			
1.006	Ex. SB9	120 Winter	100	+0%	100/120 Winter			
5.000	Block B_1	240 Winter	100	+0%	100/120 Winter			
5.001	Block B_2	240 Winter	100	+0%	100/120 Winter			
5.002	Ex. SB17	120 Winter	100	+0%	100/120 Winter		100/120 Winter	3
1.007	Ex. SB8	120 Winter	100	+0%	100/120 Winter			
6.000	BovisA_1	120 Winter	100	+0%	100/120 Winter			
6.001	BovisA_2	120 Winter	100	+0%	100/120 Winter			
1.008	Ex SB7	120 Winter	100	+0%	100/120 Winter			
7.000	BovisB_1	120 Winter	100	+0%	100/120 Winter			
7.001	BovisB_2	120 Winter	100	+0%	100/120 Winter			
1.009	Dummy Node	120 Winter	100	+0%	100/120 Winter			
8.000	Plots 123 - 126	120 Winter	100	+0%	100/120 Winter			
9.000	Plots 111 - 116	120 Winter	100	+0%	100/120 Winter			
10.000	Gullies:PH4 SPILL	120 Winter	100	+0%	100/120 Winter	100/120 Winter		
8.001	SW01	120 Winter	100	+0%	100/120 Winter			
8.002	Permbase 01	120 Winter	100	+0%	100/120 Winter			
11.000	Plots 117 - 122	120 Winter	100	+0%	100/120 Winter			
11.001	Stub SW02/2	120 Winter	100	+0%	100/120 Winter			
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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	5.247	-0.223	0.000	0.15			10.2	OK	
1.001	TL_SW02	5.019	-0.200	0.000	0.24			16.3	OK	
2.000	Parcel A2_1	5.844	0.344	0.000	0.04			4.5	SURCHARGED	
2.001	Parcel A2_2	5.851	0.701	0.000	0.31			4.1	SURCHARGED	
1.002	TL_SW03	4.891	-0.165	0.000	0.40			26.3	OK	
3.000	Parcel B6_1	5.640	0.340	0.000	0.06		118	5.4	SURCHARGED	
3.001	Parcel B6_2	5.642	0.692	0.000	0.39			5.0	SURCHARGED	
1.003	TL_SW04	4.843	-0.092	0.000	0.54			37.2	OK	
1.004	TL_SW05	4.769	0.134	0.000	0.76			54.8	SURCHARGED	
4.000	Parcel B1&CH_1	4.689	0.189	0.000	0.20			10.9	SURCHARGED	
4.001	Parcel B1&CH_2	4.792	0.507	0.000	0.59			7.9	SURCHARGED	
1.005	Ex. SB10	4.529	0.319	0.000	0.92			63.0	SURCHARGED	
1.006	Ex. SB9	4.428	0.358	0.000	1.02			72.6	SURCHARGED	
5.000	Block B_1	4.992	0.192	0.000	0.03			5.9	SURCHARGED	
5.001	Block B_2	4.997	0.942	0.000	0.37			5.2	SURCHARGED	
5.002	Ex. SB17	4.054	0.104	0.000	0.16	51.7		10.8	SURCHARGED	
1.007	Ex. SB8	4.180	0.380	0.000	1.08			67.3	SURCHARGED	
6.000	BovisA_1	4.569	0.094	0.000	0.51		52	60.7	SURCHARGED	
6.001	BovisA_2	4.644	0.269	0.000	0.15			54.5	SURCHARGED	
1.008	Ex SB7	4.017	0.517	0.000	0.87			118.1	SURCHARGED	
7.000	BovisB_1	4.022	0.247	0.000	0.30		56	47.2	SURCHARGED	
7.001	BovisB_2	3.995	0.395	0.000	0.19			47.3	SURCHARGED	
1.009	Dummy Node	3.799	0.624	0.000	1.12			144.4	SURCHARGED	
8.000	Plots 123 - 126	3.866	0.561	0.000	0.55			4.8	FLOOD RISK	
9.000	Plots 111 - 116	3.859	0.573	0.000	0.51			6.8	FLOOD RISK	
10.000	Gullies:PH4 SPILL	3.850	0.505	0.061	0.02			0.9	FLOOD	1
8.001	SW01	3.854	0.589	0.000	0.86			19.9	FLOOD RISK	
8.002	Permbase 01	3.846	0.601	0.000	0.74		43	23.6	FLOOD RISK	
11.000	Plots 117 - 122	3.855	0.540	0.000	0.01			0.1	FLOOD RISK	
11.001	Stub SW02/2	3.855	0.762	0.000	0.53			15.7	SURCHARGED	
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Summary of Critical Results by Maximum Level (Rank 1) for Storm									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
12.000	Plots 101-110	120 Winter	100	+0%	100/120 Winter				3.854
8.003	SW02	120 Winter	100	+0%	100/120 Winter				3.845
1.010	Ex SB6	120 Winter	100	+0%	100/120 Winter				3.776
13.000	Ret Block A	480 Winter	100	+0%	100/120 Winter				3.586
13.001	Ret Block A	480 Winter	100	+0%	100/120 Winter				3.832
14.000	Plots 95-100	120 Winter	100	+0%	100/120 Winter				3.666
1.011	SW03	120 Winter	100	+0%	100/120 Winter				3.661
1.012	SW04	120 Winter	100	+0%	100/120 Winter				3.525
15.000	SW-IC2	120 Winter	100	+0%	100/120 Winter				3.559
16.000	Gully - Low Point	120 Winter	100	+0%	100/120 Winter				3.582
16.001	SW-IC3	120 Winter	100	+0%	100/120 Winter				3.575
15.001	SW-IC4	120 Winter	100	+0%	100/120 Winter				3.556
15.002	SW-IC5	120 Winter	100	+0%	100/120 Winter				3.531
17.000	SW-IC1	120 Winter	100	+0%	100/120 Winter				3.557
18.000	Gully: Low point	120 Winter	100	+0%	100/120 Winter				3.566
17.001	SW-IC2	120 Winter	100	+0%	100/120 Winter				3.553
17.002	SW-IC4	120 Winter	100	+0%	100/120 Winter				3.527
19.000	SW01	120 Winter	100	+0%	100/120 Winter				3.535
15.003	SW02	120 Winter	100	+0%	100/120 Winter				3.508
15.004	Permbase 02	120 Winter	100	+0%	100/120 Winter				3.420
20.000	Plots 80-86	120 Winter	100	+0%	100/120 Winter				3.434
21.000	Plots 87-94	120 Winter	100	+0%	100/120 Winter				3.408
1.013	SW05	120 Winter	100	+0%	100/120 Winter				3.398
22.000	C2 Resiblock A	120 Winter	100	+0%	100/120 Winter				3.249
1.014	SW06	120 Winter	100	+0%	100/120 Winter				3.231
1.015	Permbase 03	120 Winter	100	+0%	100/120 Winter				3.089
23.000	SW-N1	120 Winter	100	+0%	100/120 Winter				3.086
23.001	SW-N2	120 Winter	100	+0%	100/120 Winter				3.076
24.000	SW-N3	120 Winter	100	+0%	100/120 Winter				3.071
23.002	SW-N4	120 Winter	100	+0%	100/120 Winter				3.060
23.003	Permbase 04	240 Winter	100	+0%	100/120 Winter				3.039
25.000	Plots 60-73	120 Winter	100	+0%	100/120 Winter				3.067
26.000	Plots 74-78	120 Winter	100	+0%	100/120 Winter				3.071
23.004	SW07	240 Winter	100	+0%	100/120 Winter				3.036
23.005	Permbase 05	240 Winter	100	+0%	100/120 Winter				3.029
27.000	Plots 39-46	120 Winter	100	+0%	100/120 Winter				3.286
28.000	SW-LYM 01	120 Winter	100	+0%	100/120 Winter				4.039
29.000	Non resi	480 Winter	100	+0%	100/120 Winter				4.639
29.001	Non resi	480 Winter	100	+0%	100/120 Winter				4.888
28.001	SW-LYM 02	120 Winter	100	+0%	100/120 Winter				4.024
30.000	Parcel A1	120 Winter	100	+0%	100/120 Winter				4.298
30.001	As-built SA8	120 Winter	100	+0%	100/120 Winter				4.269
31.000	Non Resi	480 Winter	100	+0%	100/120 Winter				4.619
31.001	SW Stub 02	480 Winter	100	+0%	100/120 Winter				4.883
30.002	SW-LYM 03/1	120 Winter	100	+0%	100/120 Winter				4.014
28.002	SW-LYM 03	120 Winter	100	+0%	100/120 Winter				3.978
28.003	SW-LYM 04	120 Winter	100	+0%	100/120 Winter				3.805
32.000	SW-LYM 07	120 Winter	100	+0%	100/120 Winter				3.939
32.001	SW-LYM 08	120 Winter	100	+0%	100/120 Winter				3.777
33.000	SW-LYM 05A	120 Winter	100	+0%	100/120 Winter				7.321
33.001	SW-LYM 05	120 Winter	100	+0%	100/120 Winter				5.933
28.004	SW-LYM 10	120 Winter	100	+0%	100/120 Winter				3.719
28.005	SW-LYM11	240 Winter	100	+0%	100/120 Winter				3.576
34.000	ExSB17_Dum Node	120 Winter	100	+0%	100/120 Winter				3.853
28.006	SW-LYM 12	240 Winter	100	+0%	100/120 Winter				3.465
28.007	SW-FUT-03	240 Winter	100	+0%	100/120 Winter				3.316
35.000	Stub SW18/1	240 Winter	100	+0%	100/120 Winter				3.233
35.001	SW18	240 Winter	100	+0%	100/120 Winter				3.219
28.008	SW19	240 Winter	100	+0%	100/120 Winter				3.200
28.009	SW20	240 Winter	100	+0%	100/120 Winter				3.060
36.000	Car Park	240 Winter	100	+0%	100/120 Winter				4.649
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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
12.000	Plots 101-110	0.629	0.000	0.41			14.5	SURCHARGED	
8.003	SW02	0.790	0.000	1.06			28.5	SURCHARGED	
1.010	Ex SB6	0.701	0.000	0.88			167.9	SURCHARGED	
13.000	Ret Block A	0.286	0.000	0.26			13.1	SURCHARGED	
13.001	Ret Block A	0.782	0.000	0.23			4.2	SURCHARGED	
14.000	Plots 95-100	0.441	0.000	0.21			9.5	SURCHARGED	
1.011	SW03	0.741	0.000	0.82			179.3	SURCHARGED	
1.012	SW04	0.785	0.000	0.88			184.5	SURCHARGED	
15.000	SW-IC2	0.469	0.000	0.11			1.4	SURCHARGED	
16.000	Gully - Low Point	0.332	0.000	0.22			3.7	SURCHARGED	
16.001	SW-IC3	0.425	0.000	0.54			7.4	SURCHARGED	
15.001	SW-IC4	0.526	0.000	0.76			10.2	SURCHARGED	
15.002	SW-IC5	0.601	0.000	0.87			11.8	SURCHARGED	
17.000	SW-IC1	0.067	0.000	0.06			1.7	SURCHARGED	
18.000	Gully: Low point	0.466	0.000	0.44			6.9	SURCHARGED	
17.001	SW-IC2	0.543	0.000	0.75			10.2	SURCHARGED	
17.002	SW-IC4	0.627	0.000	1.06			11.9	SURCHARGED	
19.000	SW01	0.270	0.000	0.31			13.3	SURCHARGED	
15.003	SW02	0.648	0.000	0.75			48.1	SURCHARGED	
15.004	Permbase 02	0.700	0.000	0.66		26	43.0	SURCHARGED	
20.000	Plots 80-86	0.734	0.000	0.58			13.3	SURCHARGED	
21.000	Plots 87-94	0.581	0.000	0.20			15.2	SURCHARGED	
1.013	SW05	0.798	0.000	1.31			243.8	SURCHARGED	
22.000	C2 Resiblock A	0.704	0.000	0.30			21.8	SURCHARGED	
1.014	SW06	0.791	0.000	1.58			266.3	SURCHARGED	
1.015	Permbase 03	0.739	0.000	2.40		44	339.8	SURCHARGED	
23.000	SW-N1	0.171	0.000	0.22			8.5	SURCHARGED	
23.001	SW-N2	0.311	0.000	0.41			16.1	SURCHARGED	
24.000	SW-N3	0.196	0.000	0.19			9.7	SURCHARGED	
23.002	SW-N4	0.430	0.000	0.43			28.0	SURCHARGED	
23.003	Permbase 04	0.564	0.000	0.39		77	23.6	SURCHARGED	
25.000	Plots 60-73	0.317	0.000	1.01			11.1	SURCHARGED	
26.000	Plots 74-78	0.321	0.000	0.82			13.1	SURCHARGED	
23.004	SW07	0.636	0.000	0.83			46.2	SURCHARGED	
23.005	Permbase 05	0.674	0.000	0.79		81	45.7	SURCHARGED	
27.000	Plots 39-46	-0.104	0.000	0.21			12.3	OK	
28.000	SW-LYM 01	0.074	0.000	0.28			8.5	SURCHARGED	
29.000	Non resi	0.189	0.000	0.07			15.9	SURCHARGED	
29.001	Non resi	0.943	0.000	0.13			4.5	SURCHARGED	
28.001	SW-LYM 02	0.159	0.000	0.52			17.6	SURCHARGED	
30.000	Parcel A1	-0.152	0.000	0.12		80	26.7	OK	
30.001	As-built SA8	0.281	0.000	0.62			24.8	SURCHARGED	
31.000	Non Resi	0.169	0.000	0.04			12.7	SURCHARGED	
31.001	SW Stub 02	1.018	0.000	0.12			4.6	SURCHARGED	
30.002	SW-LYM 03/1	0.219	0.000	0.69			29.7	SURCHARGED	
28.002	SW-LYM 03	0.403	0.000	1.46			48.6	SURCHARGED	
28.003	SW-LYM 04	0.280	0.000	0.84			52.6	SURCHARGED	
32.000	SW-LYM 07	-0.156	0.000	0.21			8.8	OK	
32.001	SW-LYM 08	-0.118	0.000	0.40			24.5	OK	
33.000	SW-LYM 05A	-0.179	0.000	0.34			48.1	FLOOD RISK	
33.001	SW-LYM 05	0.093	0.000	2.37			58.8	SURCHARGED	
28.004	SW-LYM 10	0.354	0.000	1.04			135.9	SURCHARGED	
28.005	SW-LYM11	0.446	0.000	0.65			118.7	SURCHARGED	
34.000	ExSB17_Dum Node	-0.072	0.000	0.75			51.9	OK	
28.006	SW-LYM 12	0.495	0.000	0.58			143.1	SURCHARGED	
28.007	SW-FUT-03	0.626	0.000	0.75			145.2	SURCHARGED	
35.000	Stub SW18/1	0.508	0.000	0.57			19.1	SURCHARGED	
35.001	SW18	0.614	0.000	0.65			22.6	SURCHARGED	
28.008	SW19	0.780	0.000	0.73			169.6	SURCHARGED	
28.009	SW20	0.775	0.000	0.82			168.1	SURCHARGED	
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<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>									
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
36.000	Car Park	0.699	0.000	0.03		225	5.8	SURCHARGED	
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Innovyze					Network 2020.1					
Summary of Critical Results by Maximum Level (Rank 1) for Storm										
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	
36.001	Car Park	240 Winter	100	+0%	100/120 Winter				4.689	
37.000	Non Resi	480 Winter	100	+0%	100/120 Winter				3.364	
37.001	Stub SW9/1	480 Winter	100	+0%	100/120 Winter				3.524	
38.000	SW08	120 Winter	100	+0%					3.609	
39.000	Non Resi	240 Winter	100	+0%	100/120 Winter				3.323	
39.001	Stub SW9/2	240 Winter	100	+0%	100/120 Winter				3.344	
40.000	Plots 1 - 4	120 Winter	100	+0%					4.338	
37.002	SW09	240 Winter	100	+0%	100/120 Winter				3.153	
41.000	SW12	120 Winter	100	+0%	100/120 Winter				3.191	
41.001	SW13	240 Winter	100	+0%	100/120 Winter				3.182	
41.002	SW14	240 Winter	100	+0%	100/120 Winter				3.167	
41.003	SW15	240 Winter	100	+0%	100/120 Winter				3.136	
42.000	Plots 16-22	120 Winter	100	+0%					3.481	
37.003	SW16	240 Winter	100	+0%	100/120 Winter				3.122	
37.004	SW17	240 Winter	100	+0%	100/120 Winter				3.092	
28.010	SW21	240 Winter	100	+0%	100/120 Winter				3.034	
27.001	SW22	240 Winter	100	+0%	100/120 Winter				3.030	
43.000	Plots 47-55	240 Winter	100	+0%	100/120 Winter				3.030	
27.002	SW23	240 Winter	100	+0%	100/120 Winter				3.028	
1.016	SW24	240 Winter	100	+0%	100/120 Winter				3.020	
1.017	Permbase 06	240 Winter	100	+0%	100/120 Winter				2.999	
44.000	Plots	240 Winter	100	+0%	100/120 Winter				3.003	
44.001	Stub SW25/1	240 Winter	100	+0%	100/120 Winter				2.995	
45.000	Stub SW25/2	120 Winter	100	+0%	100/120 Winter				3.001	
1.018	SW25	240 Winter	100	+0%	100/120 Winter				2.989	
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	
36.001	Car Park	1.139	0.000	0.11			4.5	SURCHARGED		
37.000	Non Resi	0.214	0.000	0.04			6.4	SURCHARGED		
37.001	Stub SW9/1	0.699	0.000	0.10			4.0	SURCHARGED		
38.000	SW08	-0.166	0.000	0.16			14.7	OK		
39.000	Non Resi	0.173	0.000	0.02		210	4.5	SURCHARGED		
39.001	Stub SW9/2	0.619	0.000	0.08			3.5	SURCHARGED		
40.000	Plots 1 - 4	-0.122	0.000	0.08			4.1	OK		
37.002	SW09	0.528	0.000	0.53			21.4	SURCHARGED		
41.000	SW12	0.176	0.000	0.32			10.7	SURCHARGED		
41.001	SW13	0.277	0.000	0.30			12.0	SURCHARGED		
41.002	SW14	0.342	0.000	0.39			17.7	SURCHARGED		
41.003	SW15	0.666	0.000	0.38			23.7	SURCHARGED		
42.000	Plots 16-22	-0.109	0.000	0.17			10.4	OK		
37.003	SW16	0.722	0.000	0.37			49.6	SURCHARGED		
37.004	SW17	0.822	0.000	0.30			49.3	SURCHARGED		
28.010	SW21	0.474	0.000	0.40			239.1	SURCHARGED		
27.001	SW22	0.500	0.000	0.23			190.9	SURCHARGED		
43.000	Plots 47-55	0.305	0.000	0.76			17.4	SURCHARGED		
27.002	SW23	0.633	0.000	0.20			151.9	SURCHARGED		
1.016	SW24	0.710	0.000	0.40			315.0	SURCHARGED		
1.017	Permbase 06	0.799	0.000	0.55		223	275.9	SURCHARGED		
44.000	Plots	0.408	0.000	0.39			15.6	SURCHARGED		
44.001	Stub SW25/1	0.780	0.000	2.23			27.9	SURCHARGED		
45.000	Stub SW25/2	0.736	0.000	1.00			24.7	SURCHARGED		
1.018	SW25	1.264	0.000	0.79			272.3	SURCHARGED		
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