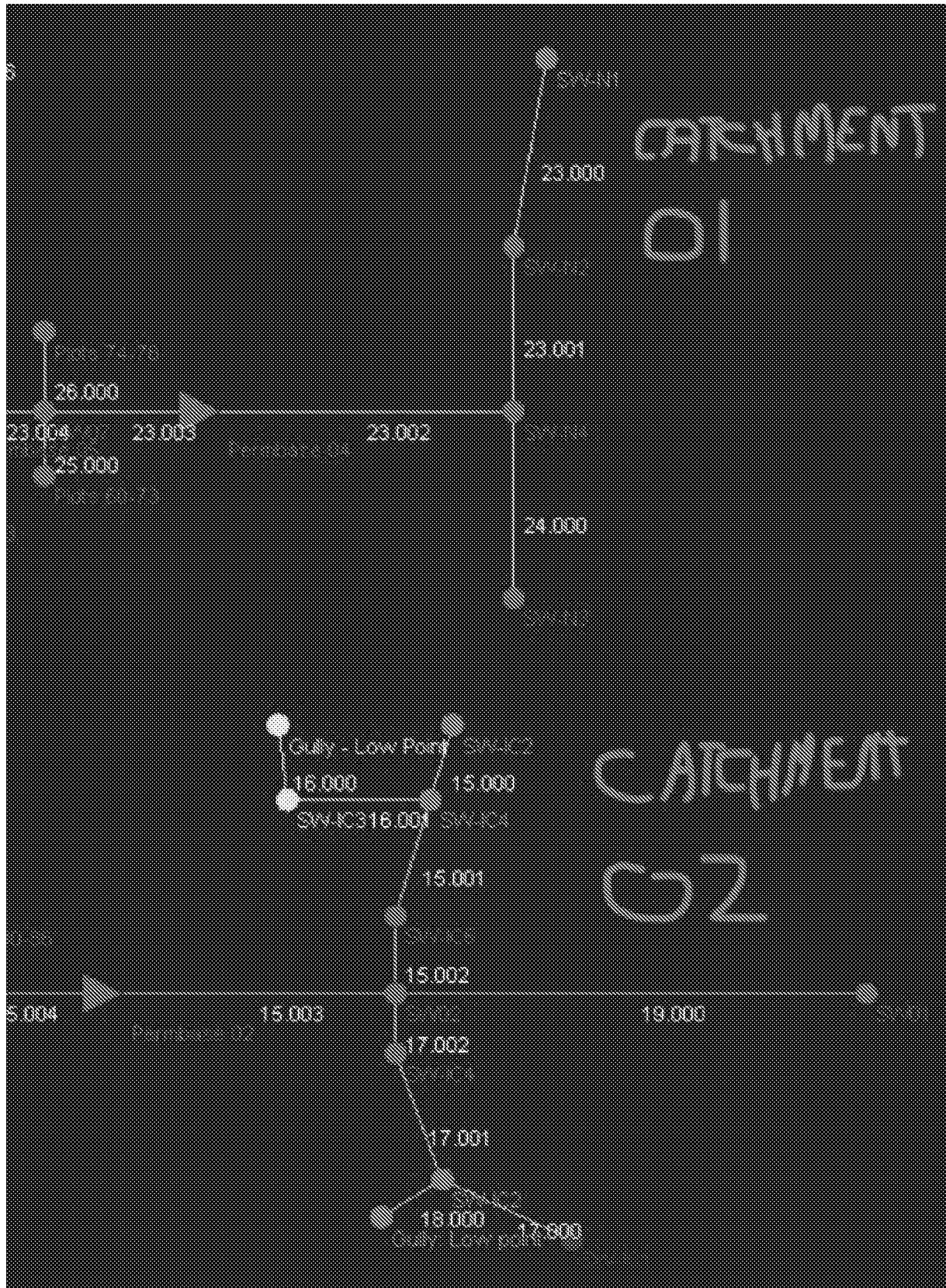


HAMPTON PARK, LITTLEHAMPTON (Dec 2020)

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						
Summary of Critical Results by Maximum Outflow (Rank 1) for Storm								
Simulation Criteria								
Areal Reduction Factor		1.000		Additional Flow - % of Total Flow 0.000				
Hot Start (mins)		0		MADD Factor * 10mE/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 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)								
Duration(s) (mins)		120, 240, 480		Winter				
Return Period(s) (years)		100						
Climate Change (%)		30						
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	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 SPI LL	240 Winter	100	+30%	100/120 Winter	100/120 Winter		
8.001	SW01	240 Winter	100	+30%	100/120 Winter			
8.002	Purchase 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						
<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 (m ³)	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 SPIRE	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	Peribase 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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Lion House Oriental Road Woking, GU22 8AR			Littlehampton West Catchment Overflow into Phase 4					
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Innovyze			Network 2020.1					
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.
12.000	Plots 101-110	120 Wnter	100	+30%	100/120 Wnter			
8.003	SW02	240 Wnter	100	+30%	100/120 Wnter			
1.010	Ex SB6	120 Wnter	100	+30%	100/120 Wnter			
13.000	Ret Block A	480 Wnter	100	+30%	100/120 Wnter			
13.001	Ret Block A	480 Wnter	100	+30%	100/120 Wnter			
14.000	Plots 95-100	120 Wnter	100	+30%	100/120 Wnter			
1.011	SW03	120 Wnter	100	+30%	100/120 Wnter			
1.012	SW04	120 Wnter	100	+30%	100/120 Wnter			
15.000	SWIC2	120 Wnter	100	+30%	100/120 Wnter			
16.000	Gully - Low Point	120 Wnter	100	+30%	100/120 Wnter	100/120 Wnter		
16.001	SWIC3	120 Wnter	100	+30%	100/120 Wnter	100/120 Wnter		
15.001	SWIC4	120 Wnter	100	+30%	100/120 Wnter			
15.002	SWIC5	120 Wnter	100	+30%	100/120 Wnter			
17.000	SWIC1	120 Wnter	100	+30%	100/120 Wnter	100/120 Wnter		
18.000	Gully: Low point	120 Wnter	100	+30%	100/120 Wnter	100/120 Wnter		
17.001	SWIC2	120 Wnter	100	+30%	100/120 Wnter			
17.002	SWIC4	120 Wnter	100	+30%	100/120 Wnter			
19.000	SW01	120 Wnter	100	+30%	100/120 Wnter			
15.003	SW02	120 Wnter	100	+30%	100/120 Wnter			
15.004	Permbase 02	120 Wnter	100	+30%	100/120 Wnter			
20.000	Plots 80-86	120 Wnter	100	+30%	100/120 Wnter			
21.000	Plots 87-94	120 Wnter	100	+30%	100/120 Wnter			
1.013	SW05	120 Wnter	100	+30%	100/120 Wnter			
22.000	C2 Resi block A	120 Wnter	100	+30%	100/120 Wnter			
1.014	SW06	120 Wnter	100	+30%	100/120 Wnter			
1.015	Permbase 03	120 Wnter	100	+30%	100/120 Wnter			
23.000	SW N1	120 Wnter	100	+30%	100/120 Wnter			
23.001	SW N2	120 Wnter	100	+30%	100/120 Wnter			
24.000	SW N3	120 Wnter	100	+30%	100/120 Wnter			
23.002	SW N4	120 Wnter	100	+30%	100/120 Wnter			
23.003	Permbase 04	120 Wnter	100	+30%	100/120 Wnter			
25.000	Plots 60-73	120 Wnter	100	+30%	100/120 Wnter			
26.000	Plots 74-78	120 Wnter	100	+30%	100/120 Wnter			
23.004	SW07	120 Wnter	100	+30%	100/120 Wnter			
23.005	Permbase 05	120 Wnter	100	+30%	100/120 Wnter			
27.000	Plots 39-46	120 Wnter	100	+30%	100/240 Wnter			
28.000	SW LYM 01	120 Wnter	100	+30%	100/120 Wnter			
29.000	Non resi	240 Wnter	100	+30%	100/120 Wnter			
29.001	Non resi	480 Wnter	100	+30%	100/120 Wnter	100/480 Wnter		
28.001	SW LYM 02	120 Wnter	100	+30%	100/120 Wnter			
30.000	Parcel A1	120 Wnter	100	+30%	100/120 Wnter			
30.001	As-built SA8	240 Wnter	100	+30%	100/120 Wnter			
31.000	Non Resi	240 Wnter	100	+30%	100/120 Wnter			
31.001	SW Stub 02	480 Wnter	100	+30%	100/120 Wnter			
30.002	SW LYM 03/1	480 Wnter	100	+30%	100/120 Wnter			
28.002	SW LYM 03	120 Wnter	100	+30%	100/120 Wnter			
28.003	SW LYM 04	120 Wnter	100	+30%	100/120 Wnter			
32.000	SW LYM 07	120 Wnter	100	+30%	100/120 Wnter			
32.001	SW LYM 08	120 Wnter	100	+30%	100/120 Wnter			
33.000	SW LYM 05A	120 Wnter	100	+30%				
33.001	SW LYM 05	120 Wnter	100	+30%	100/120 Wnter			
28.004	SW LYM 10	120 Wnter	100	+30%	100/120 Wnter			
28.005	SW LYM 11	120 Wnter	100	+30%	100/120 Wnter			
34.000	ExSB17_Dum Node	120 Wnter	100	+30%	100/120 Wnter			
28.006	SW LYM 12	120 Wnter	100	+30%	100/120 Wnter			
28.007	SW FUL-03	120 Wnter	100	+30%	100/120 Wnter			
35.000	Stub SWN8/1	120 Wnter	100	+30%	100/120 Wnter			
35.001	SWN8	120 Wnter	100	+30%	100/120 Wnter			
28.008	SWN9	120 Wnter	100	+30%	100/120 Wnter			
28.009	SWN0	120 Wnter	100	+30%	100/120 Wnter			
36.000	Car Park	120 Wnter	100	+30%	100/120 Wnter			
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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						
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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 (m ³)	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	SWIC2	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	SWIC3	3.900	0.750	0.041	0.69			9.6	FLOOD	1
15.001	SWIC4	3.889	0.859	0.000	0.98			13.2	FLOOD RISK	
15.002	SWIC5	3.863	0.933	0.000	1.11			15.2	FLOOD RISK	
17.000	SWIC1	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	SWIC2	3.891	0.881	0.000	0.98			13.3	FLOOD RISK	
17.002	SWIC4	3.862	0.862	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 Resi block A	3.445	0.900	0.000	0.47			34.2	SURCHARGED	
1.014	SW06	3.439	0.999	0.000	1.73			299.9	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	0.813	0.000	1.09			142.5	SURCHARGED	
28.005	SW LYM 11	4.040	0.810	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 FUF-03	3.672	0.982	0.000	1.29			249.5	SURCHARGED	
35.000	Stub SW08/1	3.673	0.948	0.000	1.18			39.4	SURCHARGED	
35.001	SW08	3.555	0.950	0.000	1.33			46.5	SURCHARGED	
28.008	SW09	3.533	1.113	0.000	1.30			302.9	SURCHARGED	
28.009	SW09	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) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
36.001	Car Park	240 Wnter	100	+30%	100/120 Wnter				4.754
37.000	Non Resi	480 Wnter	100	+30%	100/120 Wnter				3.657
37.001	Stub SW0/1	480 Wnter	100	+30%	100/120 Wnter				3.862
38.000	SW08	120 Wnter	100	+30%					3.618
39.000	Non Resi	120 Wnter	100	+30%	100/120 Wnter				3.558
39.001	Stub SW0/2	480 Wnter	100	+30%	100/120 Wnter				3.640
40.000	Plots 1 - 4	120 Wnter	100	+30%					4.342
37.002	SW09	120 Wnter	100	+30%	100/120 Wnter				3.391
41.000	SW2	120 Wnter	100	+30%	100/120 Wnter				3.522
41.001	SW3	120 Wnter	100	+30%	100/120 Wnter				3.508
41.002	SW4	120 Wnter	100	+30%	100/120 Wnter				3.481
41.003	SW5	120 Wnter	100	+30%	100/120 Wnter				3.421
42.000	Plots 16-22	120 Wnter	100	+30%					3.487
37.003	SW6	120 Wnter	100	+30%	100/120 Wnter				3.357
37.004	SW7	120 Wnter	100	+30%	100/120 Wnter				3.352
28.010	SW21	240 Wnter	100	+30%	100/120 Wnter				3.531
27.001	SW22	240 Wnter	100	+30%	100/120 Wnter				3.523
43.000	Plots 47-55	120 Wnter	100	+30%	100/120 Wnter				3.505
27.002	SW23	240 Wnter	100	+30%	100/120 Wnter				3.500
1.016	SW24	120 Wnter	100	+30%	100/120 Wnter				3.310
1.017	Permbase 06	480 Wnter	100	+30%	100/120 Wnter				3.273
44.000	Plots	120 Wnter	100	+30%	100/120 Wnter				3.136
44.001	Stub SW25/1	120 Wnter	100	+30%	100/120 Wnter				3.191
45.000	Stub SW25/2	120 Wnter	100	+30%	100/120 Wnter				3.165
1.018	SW25	480 Wnter	100	+30%	100/120 Wnter				3.323
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m ³)	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 SW0/1	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 SW0/2	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	SW2	0.507	0.000	0.38			12.8	SURCHARGED	
41.001	SW3	0.603	0.000	0.64			25.5	SURCHARGED	
41.002	SW4	0.656	0.000	0.83			38.0	SURCHARGED	
41.003	SW5	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	SW6	0.957	0.000	0.76			100.2	SURCHARGED	
37.004	SW7	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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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 * 10mE/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 SPI LL	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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Date 21/12/2020 File West Catchment Model - ...				Designed by S Foley 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	5.247	-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	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 SPI LL	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	Pernbase 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 Wnter	100	+0%	100/120 Wnter				3.854
8.003	SW02	120 Wnter	100	+0%	100/120 Wnter				3.845
1.010	Ex SB6	120 Wnter	100	+0%	100/120 Wnter				3.776
13.000	Ret Block A	480 Wnter	100	+0%	100/120 Wnter				3.586
13.001	Ret Block A	480 Wnter	100	+0%	100/120 Wnter				3.832
14.000	Plots 95-100	120 Wnter	100	+0%	100/120 Wnter				3.666
1.011	SW03	120 Wnter	100	+0%	100/120 Wnter				3.661
1.012	SW04	120 Wnter	100	+0%	100/120 Wnter				3.525
15.000	SWIC2	120 Wnter	100	+0%	100/120 Wnter				3.559
16.000	Gully - Low Point	120 Wnter	100	+0%	100/120 Wnter				3.582
16.001	SWIC3	120 Wnter	100	+0%	100/120 Wnter				3.575
15.001	SWIC4	120 Wnter	100	+0%	100/120 Wnter				3.556
15.002	SWIC5	120 Wnter	100	+0%	100/120 Wnter				3.531
17.000	SWIC1	120 Wnter	100	+0%	100/120 Wnter				3.557
18.000	Gully: Low point	120 Wnter	100	+0%	100/120 Wnter				3.566
17.001	SWIC2	120 Wnter	100	+0%	100/120 Wnter				3.553
17.002	SWIC3	120 Wnter	100	+0%	100/120 Wnter				3.527
19.000	SW01	120 Wnter	100	+0%	100/120 Wnter				3.535
15.003	SW02	120 Wnter	100	+0%	100/120 Wnter				3.508
15.004	Permbase 02	120 Wnter	100	+0%	100/120 Wnter				3.420
20.000	Plots 80- 86	120 Wnter	100	+0%	100/120 Wnter				3.434
21.000	Plots 87- 94	120 Wnter	100	+0%	100/120 Wnter				3.408
1.013	SW05	120 Wnter	100	+0%	100/120 Wnter				3.398
22.000	C2 Resi block A	120 Wnter	100	+0%	100/120 Wnter				3.249
1.014	SW06	120 Wnter	100	+0%	100/120 Wnter				3.231
1.015	Permbase 03	120 Wnter	100	+0%	100/120 Wnter				3.089
23.000	SW N1	120 Wnter	100	+0%	100/120 Wnter				3.086
23.001	SW N2	120 Wnter	100	+0%	100/120 Wnter				3.076
24.000	SW N3	120 Wnter	100	+0%	100/120 Wnter				3.071
23.002	SW N4	120 Wnter	100	+0%	100/120 Wnter				3.060
23.003	Permbase 04	240 Wnter	100	+0%	100/120 Wnter				3.039
25.000	Plots 60- 73	120 Wnter	100	+0%	100/120 Wnter				3.067
26.000	Plots 74- 78	120 Wnter	100	+0%	100/120 Wnter				3.071
23.004	SW07	240 Wnter	100	+0%	100/120 Wnter				3.036
23.005	Permbase 05	240 Wnter	100	+0%	100/120 Wnter				3.029
27.000	Plots 39- 46	120 Wnter	100	+0%					3.286
28.000	SW LYM 01	120 Wnter	100	+0%	100/120 Wnter				4.039
29.000	Non resi	480 Wnter	100	+0%	100/120 Wnter				4.639
29.001	Non resi	480 Wnter	100	+0%	100/120 Wnter				4.888
28.001	SW LYM 02	120 Wnter	100	+0%	100/120 Wnter				4.024
30.000	Parcel A1	120 Wnter	100	+0%					4.298
30.001	As-built SA8	120 Wnter	100	+0%	100/120 Wnter				4.269
31.000	Non Resi	480 Wnter	100	+0%	100/120 Wnter				4.619
31.001	SW Stub 02	480 Wnter	100	+0%	100/120 Wnter				4.883
30.002	SW LYM 03/1	120 Wnter	100	+0%	100/120 Wnter				4.014
28.002	SW LYM 03	120 Wnter	100	+0%	100/120 Wnter				3.978
28.003	SW LYM 04	120 Wnter	100	+0%	100/120 Wnter				3.805
32.000	SW LYM 07	120 Wnter	100	+0%					3.939
32.001	SW LYM 08	120 Wnter	100	+0%					3.777
33.000	SW LYM 05A	120 Wnter	100	+0%					7.321
33.001	SW LYM 05	120 Wnter	100	+0%	100/120 Wnter				5.933
28.004	SW LYM 10	120 Wnter	100	+0%	100/120 Wnter				3.719
28.005	SW LYM11	240 Wnter	100	+0%	100/120 Wnter				3.576
34.000	ExSB17_Dum Node	120 Wnter	100	+0%					3.853
28.006	SW LYM 12	240 Wnter	100	+0%	100/120 Wnter				3.465
28.007	SW FUT- 03	240 Wnter	100	+0%	100/120 Wnter				3.316
35.000	Stub SW8/1	240 Wnter	100	+0%	100/120 Wnter				3.233
35.001	SW18	240 Wnter	100	+0%	100/120 Wnter				3.219
28.008	SW19	240 Wnter	100	+0%	100/120 Wnter				3.200
28.009	SW20	240 Wnter	100	+0%	100/120 Wnter				3.060
36.000	Car Park	240 Wnter	100	+0%	100/120 Wnter				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 (m ³)	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	0.799	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	SWIC2	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	SWIC3	0.425	0.000	0.54			7.4	SURCHARGED	
15.001	SWIC4	0.526	0.000	0.76			10.2	SURCHARGED	
15.002	SWIC5	0.601	0.000	0.87			11.8	SURCHARGED	
17.000	SWIC1	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	SWIC2	0.543	0.000	0.75			10.2	SURCHARGED	
17.002	SWIC4	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			249.8	SURCHARGED	
22.000	C2 Resi block 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 LYM 11	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 SW8/1	0.508	0.000	0.57			19.1	SURCHARGED	
35.001	SW8	0.614	0.000	0.65			22.6	SURCHARGED	
28.008	SW9	0.780	0.000	0.73			169.6	SURCHARGED	
28.009	SW00	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 (m ³)	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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Mayer Brown Limited						Page 6			
Lion House Oriental Road Woking, GU22 8AR				Littlehampton West Catchment Overflow into Phase 4					
Date 21/12/2020				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	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
36.001	Car Park	240 Wnter	100	+0%	100/120 Wnter				4.689
37.000	Non Resi	480 Wnter	100	+0%	100/120 Wnter				3.364
37.001	Stub SW0/1	480 Wnter	100	+0%	100/120 Wnter				3.524
38.000	SW08	120 Wnter	100	+0%					3.609
39.000	Non Resi	240 Wnter	100	+0%	100/120 Wnter				3.323
39.001	Stub SW0/2	240 Wnter	100	+0%	100/120 Wnter				3.344
40.000	Plots 1 - 4	120 Wnter	100	+0%					4.338
37.002	SW09	240 Wnter	100	+0%	100/120 Wnter				3.153
41.000	SW12	120 Wnter	100	+0%	100/120 Wnter				3.191
41.001	SW13	240 Wnter	100	+0%	100/120 Wnter				3.182
41.002	SW14	240 Wnter	100	+0%	100/120 Wnter				3.167
41.003	SW15	240 Wnter	100	+0%	100/120 Wnter				3.136
42.000	Plots 16-22	120 Wnter	100	+0%					3.481
37.003	SW16	240 Wnter	100	+0%	100/120 Wnter				3.122
37.004	SW17	240 Wnter	100	+0%	100/120 Wnter				3.092
28.010	SW21	240 Wnter	100	+0%	100/120 Wnter				3.034
27.001	SW22	240 Wnter	100	+0%	100/120 Wnter				3.030
43.000	Plots 47-55	240 Wnter	100	+0%	100/120 Wnter				3.030
27.002	SW23	240 Wnter	100	+0%	100/120 Wnter				3.028
1.016	SW24	240 Wnter	100	+0%	100/120 Wnter				3.020
1.017	Permbase 06	240 Wnter	100	+0%	100/120 Wnter				2.999
44.000	Plots	240 Wnter	100	+0%	100/120 Wnter				3.003
44.001	Stub SW25/1	240 Wnter	100	+0%	100/120 Wnter				2.995
45.000	Stub SW25/2	120 Wnter	100	+0%	100/120 Wnter				3.001
1.018	SW25	240 Wnter	100	+0%	100/120 Wnter				2.989
PN	US/MH Name	Surcharged Depth (m)	Flooded Volume (m ³)	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 SW0/1	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 SW0/2	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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