


Woods Hardwick		Page 0
15-17 Goldington Road Bedford Bedfordshire MK40 3NH		
Date 02/10/2025 14:06	Designed by a.tew	
File SW PH2, Trenchard & Chil...	Checked by	
XP Solutions	Network 2014.1.1	

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

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 0.000
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 Time/Area Diagrams 0
Number of Online Controls 11 Number of Storage Structures 31 Number of Real Time Controls 0


Synthetic Rainfall Details

Rainfall Model FEH D3 (1km) 0.264
Site Location GB 450500 225250 SP 50500 25250 E (1km) 0.292
C (1km) -0.023 F (1km) 2.461
D1 (1km) 0.328 Cv (Summer) 0.900
D2 (1km) 0.309 Cv (Winter) 0.900

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) 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) 100
Climate Change (%) 40

PN	Storm	Return Period	Climate Change	First X Surcharge	First Y Flood	First Z Overflow Act.	O/F	Lvl Exc.
1.000	360 Winter	100	+40%					
1.001	15 Summer	100	+40%	100/15	Summer			
1.002	15 Summer	100	+40%					
1.003	15 Summer	100	+40%	100/15	Summer			
1.004	15 Summer	100	+40%					
1.005	15 Summer	100	+40%					
2.000	15 Summer	100	+40%					
2.001	15 Summer	100	+40%					
2.002	15 Summer	100	+40%					
2.003	15 Summer	100	+40%	100/15	Summer			
1.006	15 Summer	100	+40%	100/15	Summer			
3.000	15 Summer	100	+40%	100/15	Summer			
3.001	15 Summer	100	+40%	100/15	Summer			

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PN	Storm	Return Period	Climate Change	First X Surcharge	First Y Flood	First Z Overflow Act.	O/F	Lvl Exc.
3.002	15 Summer	100	+40%	100/15 Summer				
3.003	15 Summer	100	+40%	100/15 Summer				
3.004	15 Summer	100	+40%	100/15 Summer				
3.005	15 Summer	100	+40%	100/15 Summer				
4.000	960 Winter	100	+40%	100/15 Summer				
4.001	15 Summer	100	+40%	100/15 Summer				
3.006	15 Summer	100	+40%	100/15 Summer				
3.007	15 Summer	100	+40%	100/15 Summer				
3.008	15 Summer	100	+40%	100/15 Summer				
3.009	15 Summer	100	+40%	100/15 Summer				
1.007	15 Summer	100	+40%	100/15 Summer				
1.008	15 Summer	100	+40%	100/15 Summer				
1.009	15 Summer	100	+40%	100/15 Summer				
1.010	15 Summer	100	+40%	100/15 Summer				
1.011	15 Winter	100	+40%	100/15 Summer				
5.000	15 Summer	100	+40%	100/15 Summer				
5.001	15 Summer	100	+40%	100/15 Summer				
5.002	15 Summer	100	+40%	100/15 Summer				
5.003	15 Summer	100	+40%	100/15 Summer				
5.004	15 Summer	100	+40%	100/15 Summer				
5.005	15 Summer	100	+40%	100/15 Summer				
5.006	960 Winter	100	+40%	100/15 Summer				
6.000	960 Winter	100	+40%	100/60 Summer				
5.007	960 Winter	100	+40%	100/15 Summer				
5.008	15 Summer	100	+40%	100/15 Summer				
7.000	15 Summer	100	+40%	100/15 Summer				
7.001	15 Summer	100	+40%	100/15 Summer				
7.002	15 Summer	100	+40%	100/15 Summer				
5.009	15 Summer	100	+40%	100/15 Summer				
8.000	960 Winter	100	+40%	100/60 Summer				
5.010	15 Summer	100	+40%	100/15 Summer				
1.012	960 Winter	100	+40%					
9.000	15 Summer	100	+40%	100/15 Summer				
9.001	1440 Winter	100	+40%	100/15 Summer				
1.013	960 Winter	100	+40%					
1.014	960 Winter	100	+40%	100/15 Summer				
10.000	15 Summer	100	+40%	100/15 Summer				
11.000	360 Winter	100	+40%					
11.001	360 Winter	100	+40%					
11.002	360 Winter	100	+40%					
12.000	15 Summer	100	+40%					
12.001	15 Summer	100	+40%	100/15 Summer				
12.002	15 Summer	100	+40%					
12.003	15 Summer	100	+40%	100/15 Summer				
12.004	15 Summer	100	+40%					

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

PN	Storm	Return Period	Climate Change	First X Surcharge	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
12.005	15 Summer	100	+40%	100/15 Summer				
12.006	15 Summer	100	+40%					
12.007	15 Summer	100	+40%	100/15 Summer				
13.000	15 Summer	100	+40%					
13.001	15 Summer	100	+40%					
13.002	15 Summer	100	+40%					
13.003	15 Summer	100	+40%	100/15 Summer				
13.004	15 Summer	100	+40%					
13.005	15 Summer	100	+40%	100/15 Summer				
13.006	15 Summer	100	+40%					
13.007	15 Summer	100	+40%	100/15 Summer				
14.000	15 Summer	100	+40%					
14.001	15 Summer	100	+40%					
14.002	15 Summer	100	+40%					
14.003	15 Summer	100	+40%	100/15 Summer				
15.000	360 Winter	100	+40%					
15.001	15 Summer	100	+40%	100/15 Summer				
12.008	960 Winter	100	+40%	100/15 Summer				
16.000	960 Winter	100	+40%	100/15 Summer				
12.009	960 Winter	100	+40%	100/15 Summer				
11.003	960 Winter	100	+40%					
17.000	360 Winter	100	+40%					
11.004	960 Winter	100	+40%					
11.005	960 Winter	100	+40%					
11.006	960 Winter	100	+40%					
11.007	960 Winter	100	+40%					
1.015	180 Summer	100	+40%					
18.000	15 Summer	100	+40%	100/15 Summer				
18.001	15 Summer	100	+40%	100/15 Summer				
19.000	15 Summer	100	+40%	100/15 Summer				
20.000	15 Summer	100	+40%	100/15 Summer				
18.002	15 Summer	100	+40%	100/15 Summer				
21.000	15 Summer	100	+40%	100/15 Summer				
22.000	15 Summer	100	+40%	100/15 Summer				
22.001	15 Summer	100	+40%	100/15 Summer				
18.003	15 Summer	100	+40%	100/15 Summer				
18.004	15 Summer	100	+40%	100/15 Summer				
23.000	15 Summer	100	+40%	100/15 Summer				
24.000	15 Summer	100	+40%	100/15 Summer				
18.005	15 Summer	100	+40%	100/15 Summer				
18.006	15 Summer	100	+40%	100/15 Summer				
25.000	15 Summer	100	+40%	100/15 Summer	100/15 Summer			3
26.000	15 Summer	100	+40%	100/15 Summer				
25.001	15 Summer	100	+40%	100/15 Summer				
25.002	15 Summer	100	+40%	100/15 Summer	100/15 Summer			1

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

PN	Storm	Return Period	Climate Change	First X Surcharge	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
27.000	15 Summer	100	+40%	100/15 Summer				
25.003	15 Summer	100	+40%	100/15 Summer				
25.004	15 Summer	100	+40%	100/15 Summer				
28.000	15 Summer	100	+40%	100/15 Summer	100/15 Summer			2
25.005	15 Summer	100	+40%	100/15 Summer	100/15 Summer			2
25.006	15 Summer	100	+40%	100/15 Summer				
18.007	15 Summer	100	+40%	100/15 Summer				
29.000	60 Winter	100	+40%	100/15 Summer				
30.000	15 Summer	100	+40%	100/15 Summer				
31.000	30 Summer	100	+40%	100/15 Summer				
30.001	30 Summer	100	+40%	100/15 Summer				
18.008	60 Winter	100	+40%	100/15 Summer				
18.009	60 Summer	100	+40%	100/15 Summer	100/15 Summer			5
18.010	60 Winter	100	+40%					
1.016	180 Summer	100	+40%					
1.017	180 Winter	100	+40%					
1.018	180 Summer	100	+40%					
32.000	15 Summer	100	+40%					
32.001	15 Summer	100	+40%					
32.002	15 Summer	100	+40%					
1.019	60 Summer	100	+40%					
33.000	15 Summer	100	+40%	100/15 Summer	100/15 Summer			3
33.001	15 Summer	100	+40%	100/15 Summer	100/15 Summer			2
33.002	15 Summer	100	+40%	100/15 Summer	100/15 Summer			3
33.003	15 Summer	100	+40%	100/15 Summer	100/15 Summer			3
34.000	60 Summer	100	+40%	100/15 Summer				
33.004	60 Summer	100	+40%	100/15 Summer				
35.000	60 Summer	100	+40%	100/15 Summer				
33.005	60 Summer	100	+40%	100/15 Summer				
33.006	60 Summer	100	+40%	100/15 Summer				
33.007	60 Summer	100	+40%	100/15 Summer	100/15 Summer			19
33.008	120 Winter	100	+40%	100/15 Summer	100/15 Summer			19
1.020	120 Summer	100	+40%					
1.021	120 Summer	100	+40%					
36.000	15 Summer	100	+40%	100/15 Summer	100/15 Summer			2
36.001	15 Summer	100	+40%	100/15 Summer	100/15 Summer			2
36.002	15 Winter	100	+40%	100/15 Summer				
36.003	15 Summer	100	+40%	100/15 Summer				
37.000	15 Summer	100	+40%					
38.000	15 Summer	100	+40%					
39.000	15 Summer	100	+40%	100/15 Summer				
40.000	15 Summer	100	+40%	100/15 Summer				
37.001	60 Summer	100	+40%	100/15 Summer	100/15 Summer			11
36.004	15 Winter	100	+40%	100/15 Summer				
36.005	30 Summer	100	+40%	100/15 Summer	100/15 Summer			5

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

PN	Storm	Return Period	Climate Change	First X Surchage	First Y Flood	First Z Overflow Act.	O/F	Lvl Exc.
36.006	30 Summer	100	+40%	100/15 Summer	100/15 Summer			5
41.000	60 Summer	100	+40%	100/15 Summer				
41.001	60 Summer	100	+40%	100/15 Summer				
36.007	60 Summer	100	+40%	100/15 Summer				
36.008	60 Summer	100	+40%	100/15 Summer				
36.009	60 Summer	100	+40%					
1.022	60 Winter	100	+40%					
1.023	60 Winter	100	+40%					
1.024	60 Winter	100	+40%					
42.000	60 Summer	100	+40%	100/15 Summer	100/15 Summer			18
42.001	120 Summer	100	+40%	100/15 Summer	100/15 Summer			18
43.000	15 Summer	100	+40%	100/15 Summer				
43.001	15 Summer	100	+40%	100/15 Summer				
43.002	15 Summer	100	+40%	100/15 Summer				
43.003	15 Summer	100	+40%	100/15 Summer				
43.004	15 Summer	100	+40%	100/15 Summer				
43.005	15 Summer	100	+40%	100/15 Summer				
43.006	15 Summer	100	+40%	100/15 Summer				
43.007	15 Summer	100	+40%	100/15 Summer				
44.000	960 Winter	100	+40%	100/15 Summer				
43.008	960 Winter	100	+40%	100/15 Summer				
42.002	120 Summer	100	+40%	100/15 Summer	100/15 Summer			16
42.003	15 Summer	100	+40%	100/15 Summer	100/15 Summer			14
42.004	15 Summer	100	+40%	100/15 Summer	100/15 Summer			9
45.000	120 Summer	100	+40%	100/15 Summer				
46.000	15 Summer	100	+40%	100/15 Summer				
46.001	960 Winter	100	+40%	100/15 Summer				
45.001	120 Summer	100	+40%	100/15 Summer				
47.000	15 Summer	100	+40%	100/15 Summer				
47.001	960 Winter	100	+40%	100/15 Summer				
45.002	120 Summer	100	+40%	100/15 Summer				
45.003	120 Summer	100	+40%	100/15 Summer	100/15 Summer			16
45.004	120 Summer	100	+40%	100/15 Summer	100/15 Summer			16
42.005	60 Winter	100	+40%	100/15 Summer	100/15 Summer			22
42.006	60 Summer	100	+40%					
1.025	60 Winter	100	+40%					

PN	US/MH Name	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
1.000	Swale1	125.750	-0.400	0.000	0.00	0.0	0.0	OK
1.001	Swale2	125.662	0.162	0.000	1.53	0.0	31.8	FLOOD RISK
1.002	Swale3	125.183	-0.327	0.000	0.02	0.0	32.0	OK
1.003	Swale4	123.989	0.014	0.000	1.04	0.0	55.6	FLOOD RISK

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

PN	US/MH Name	Water		Flooded		Pipe		Status
		Level (m)	Surch'd Depth (m)	Volume (m³)	Flow / O'flow Cap. (l/s)	Flow (l/s)		
1.004	Swale5	123.590	-0.410	0.000	0.05	0.0	55.4	OK
1.005	Swale6	123.410	-0.115	0.000	0.37	0.0	69.4	OK
2.000	Swale7	125.816	-0.334	0.000	0.02	0.0	19.1	OK
2.001	Swale8	125.339	-0.061	0.000	0.65	0.0	18.9	OK
2.002	Swale9	125.087	-0.413	0.000	0.02	0.0	65.3	OK
2.003	Swale10	123.853	0.263	0.000	0.77	0.0	64.7	FLOOD RISK
1.006	500	123.204	1.404	0.000	1.26	0.0	144.7	SURCHARGED
3.000	501	123.449	0.269	0.000	1.36	0.0	61.6	SURCHARGED
3.001	502	123.046	0.166	0.000	0.79	0.0	131.5	SURCHARGED
3.002	503	122.832	0.597	0.000	1.04	0.0	145.6	FLOOD RISK
3.003	504	122.692	0.542	0.000	0.75	0.0	156.9	SURCHARGED
3.004	505	122.559	0.549	0.000	0.77	0.0	188.2	SURCHARGED
3.005	506	122.404	0.714	0.000	0.69	0.0	180.3	SURCHARGED
4.000	PH31 a	123.192	1.467	0.000	0.05	0.0	5.4	SURCHARGED
4.001	PH31 b	123.233	1.698	0.000	0.09	0.0	5.3	FLOOD RISK
3.006	507	122.235	0.965	0.000	0.75	0.0	206.9	SURCHARGED
3.007	508	122.054	1.084	0.000	1.04	0.0	212.0	SURCHARGED
3.008	509	121.926	1.086	0.000	1.08	0.0	220.4	SURCHARGED
3.009	510	121.792	1.082	0.000	1.15	0.0	224.0	SURCHARGED
1.007	511	121.645	1.055	0.000	2.31	0.0	357.7	SURCHARGED
1.008	512	121.247	0.717	0.000	1.39	0.0	381.9	SURCHARGED
1.009	513	120.866	0.526	0.000	1.49	0.0	400.1	SURCHARGED
1.010	514	120.521	0.331	0.000	1.54	0.0	419.9	SURCHARGED
1.011	515	120.075	0.065	0.000	1.22	0.0	443.2	SURCHARGED
5.000	520	122.304	0.504	0.000	0.18	0.0	49.3	SURCHARGED
5.001	521	122.255	0.705	0.000	0.61	0.0	150.8	SURCHARGED
5.002	522	122.135	0.445	0.000	0.45	0.0	259.8	SURCHARGED
5.003	523	121.885	0.275	0.000	0.45	0.0	408.3	SURCHARGED
5.004	524	121.738	0.218	0.000	0.58	0.0	553.7	SURCHARGED
5.005	525	121.663	0.293	0.000	0.77	0.0	740.8	SURCHARGED
5.006	526	121.651	0.401	0.000	0.03	0.0	33.8	SURCHARGED
6.000	PH11 UC	121.636	0.546	0.000	0.01	0.0	6.9	SURCHARGED
5.007	527 (FC)	121.651	1.191	0.000	0.10	0.0	5.8	SURCHARGED
5.008	528	121.655	0.935	0.000	0.02	0.0	9.7	SURCHARGED
7.000	529	122.840	1.340	0.000	1.26	0.0	57.0	FLOOD RISK
7.001	530	122.663	1.363	0.000	1.37	0.0	406.2	FLOOD RISK
7.002	531	122.362	1.212	0.000	2.11	0.0	817.9	SURCHARGED
5.009	532	121.655	0.655	0.000	0.67	0.0	1192.2	SURCHARGED
8.000	PH12W UC	121.286	0.631	0.000	0.01	0.0	7.2	SURCHARGED
5.010	533 (FC)	121.458	1.608	0.000	0.12	0.0	13.1	FLOOD RISK
1.012	516	119.896	-0.399	0.000	0.03	0.0	53.6	OK
9.000	Future PH12E	121.305	0.955	0.000	2.66	0.0	1612.1	FLOOD RISK
9.001	PH12E FC +UC	120.972	1.322	0.000	0.28	0.0	7.2	SURCHARGED
1.013	Basin2	119.891	-0.209	0.000	0.02	0.0	33.1	OK

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


PN	US/MH Name	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
1.014	518 (FC)	119.883	0.828	0.000	0.46	0.0	28.4	SURCHARGED
10.000	0767	119.477	0.070	0.000	1.23	0.0	28.4	SURCHARGED
11.000	Ex MHa	125.480	-0.225	0.000	0.00	0.0	0.0	OK
11.001	Ex MHb	125.230	-0.225	0.000	0.00	0.0	0.0	OK
11.002	Ex MHc	123.800	-0.225	0.000	0.00	0.0	0.0	OK
12.000	Swale12	127.465	-0.315	0.000	0.03	0.0	31.8	OK
12.001	Swale13	127.086	0.336	0.000	1.96	0.0	36.0	FLOOD RISK
12.002	Swale14	126.576	-0.304	0.000	0.03	0.0	35.8	OK
12.003	Swale15	126.171	0.106	0.000	1.25	0.0	78.7	FLOOD RISK
12.004	Swale16	125.837	-0.303	0.000	0.05	0.0	78.2	OK
12.005	Swale17	125.794	0.269	0.000	1.35	0.0	72.6	FLOOD RISK
12.006	Swale18	125.115	-0.345	0.000	0.06	0.0	73.1	OK
12.007	Swale19	125.083	0.108	0.000	0.51	0.0	112.3	FLOOD RISK
13.000	Swale20	127.602	-0.348	0.000	0.01	0.0	9.3	OK
13.001	Swale21	127.004	-0.091	0.000	0.65	0.0	37.9	OK
13.002	Swale22	126.772	-0.428	0.000	0.02	0.0	37.3	OK
13.003	Swale23	126.288	0.103	0.000	1.44	0.0	64.3	FLOOD RISK
13.004	Swale24	125.954	-0.406	0.000	0.03	0.0	64.5	OK
13.005	Swale25	125.674	0.179	0.000	1.34	0.0	71.1	FLOOD RISK
13.006	Swale26	125.177	-0.353	0.000	0.05	0.0	71.0	OK
13.007	Swale27	125.129	0.154	0.000	0.73	0.0	91.5	FLOOD RISK
14.000	Swale28	125.783	-0.347	0.000	0.00	0.0	0.0	OK
14.001	Swale29	125.783	-0.067	0.000	0.59	0.0	9.6	OK
14.002	Swale30	125.665	-0.255	0.000	0.08	0.0	84.1	OK
14.003	Swale31	125.164	0.089	0.000	0.65	0.0	82.0	FLOOD RISK
15.000	Swale32	125.730	-0.400	0.000	0.00	0.0	0.0	OK
15.001	Swale33	125.305	0.265	0.000	0.75	0.0	43.3	FLOOD RISK
12.008	534	124.927	0.587	0.000	0.13	0.0	22.7	SURCHARGED
16.000	Basin3	124.922	0.622	0.000	0.01	0.0	2.1	FLOOD RISK
12.009	535 (FC)	124.927	0.902	0.000	0.04	0.0	2.1	SURCHARGED
11.003	536	123.679	-0.196	0.000	0.04	0.0	2.1	OK
17.000	Ex MHd	123.600	-0.225	0.000	0.00	0.0	0.0	OK
11.004	Ex MHe	122.580	-0.355	0.000	0.01	0.0	2.1	OK
11.005	Ex MHf	121.570	-0.355	0.000	0.01	0.0	2.1	OK
11.006	Ex MHg	120.662	-0.513	0.000	0.00	0.0	2.1	OK
11.007	0768	119.659	-0.516	0.000	0.00	0.0	2.1	OK
1.015	519 reconstruct	119.056	-0.184	0.000	0.16	0.0	37.4	OK
18.000	PP (D5a)	120.359	0.359	0.000	1.33	0.0	20.8	FLOOD RISK
18.001	1 (D5a)	120.542	0.642	0.000	0.18	0.0	37.9	SURCHARGED
19.000	PP (D5a)	120.325	0.465	0.000	0.99	0.0	20.3	FLOOD RISK
20.000	PP (D5a)	120.359	0.469	0.000	0.96	0.0	7.8	SURCHARGED
18.002	2 (D5a)	120.534	0.824	0.000	0.45	0.0	57.3	FLOOD RISK
21.000	PP (D5a)	120.270	0.490	0.000	1.34	0.0	8.5	SURCHARGED
22.000	PP (D5a)	120.384	0.574	0.000	1.44	0.0	19.6	FLOOD RISK

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

PN	US/MH Name	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
22.001	3 (D5a)	120.511	0.766	0.000	0.83	0.0	26.7	FLOOD RISK
18.003	4 (D5a)	120.527	0.867	0.000	0.70	0.0	82.3	FLOOD RISK
18.004	5 (D5a)	120.526	0.896	0.000	0.80	0.0	114.1	FLOOD RISK
23.000	PP (D5a)	120.364	0.434	0.000	1.21	0.0	10.0	SURCHARGED
24.000	PP (D5a)	120.363	0.433	0.000	1.21	0.0	12.3	SURCHARGED
18.005	6 (D5a)	120.480	0.960	0.000	1.13	0.0	129.0	SURCHARGED
18.006	7 (D5a)	120.443	0.963	0.000	1.37	0.0	192.7	SURCHARGED
25.000	8 (D5a)	121.399	1.019	18.893	1.05	0.0	79.3	FLOOD
26.000	PP (D5a)	121.071	0.471	0.000	1.11	0.0	14.2	FLOOD RISK
25.001	9 (D5a)	121.728	1.633	0.000	0.96	0.0	125.4	FLOOD RISK
25.002	10 (D5a)	121.630	1.735	0.160	1.28	0.0	142.1	FLOOD
27.000	PP (D5a)	120.819	0.649	0.000	1.35	0.0	20.7	SURCHARGED
25.003	11 (D5a)	121.502	1.687	0.000	0.84	0.0	133.3	SURCHARGED
25.004	11a (D5a)	121.409	1.684	0.000	1.44	0.0	215.3	FLOOD RISK
28.000	546	122.011	1.211	0.895	0.82	0.0	83.4	FLOOD
25.005	12 (D5a)	121.246	1.591	6.729	1.81	0.0	305.4	FLOOD
25.006	13 (D5a)	120.683	1.233	0.000	2.90	0.0	326.1	SURCHARGED
18.007	14 (D5a)	120.333	0.913	0.000	4.12	0.0	536.2	SURCHARGED
29.000	PH11 road	120.160	0.545	0.000	0.69	0.0	21.8	SURCHARGED
30.000	Pitch stone	121.828	0.428	0.000	1.16	0.0	44.7	FLOOD RISK
31.000	Pitch chamber a	121.304	0.054	0.000	0.03	0.0	0.5	SURCHARGED
30.001	Pitch chamber b	121.304	0.404	0.000	1.10	0.0	41.3	SURCHARGED
18.008	Pond (D5a)	120.159	0.644	0.000	1.21	0.0	130.8	SURCHARGED
18.009	15 (D5a)	120.803	1.453	3.425	0.69	0.0	99.1	FLOOD
18.010	16 (D5a)	119.071	-0.079	0.000	0.86	0.0	98.4	OK
1.016	17 (D5a)	119.045	-0.150	0.000	0.85	0.0	128.3	OK
1.017	PI (D5a)	119.025	0.000	0.000	1.08	0.0	127.9	OK
1.018	18 (D5a)	118.805	-0.190	0.000	0.73	0.0	128.4	OK
32.000	0768	118.823	-0.272	0.000	0.45	0.0	101.0	OK
32.001	0765	118.698	-0.247	0.000	0.55	0.0	98.2	OK
32.002	Ex MHh	118.651	-0.264	0.000	0.49	0.0	96.6	OK
1.019	0769	118.568	-0.554	0.000	0.24	0.0	147.5	OK
33.000	19 (TC)	120.703	0.868	3.204	0.84	0.0	37.3	FLOOD
33.001	20 (TC)	120.600	1.115	0.425	1.26	0.0	54.7	FLOOD
33.002	21 (TC)	120.101	0.926	1.454	1.45	0.0	62.7	FLOOD
33.003	22 (TC)	119.802	0.777	1.573	1.93	0.0	94.5	FLOOD
34.000	23 (TC)	119.305	0.365	0.000	0.43	0.0	15.8	FLOOD RISK
33.004	24 (TC)	119.303	0.463	0.000	1.00	0.0	71.1	FLOOD RISK
35.000	FD (TC)	119.290	0.565	0.000	0.86	0.0	25.6	SURCHARGED
33.005	25 (TC)	119.290	0.590	0.000	1.99	0.0	76.7	SURCHARGED
33.006	26 (TC)	119.275	0.550	0.000	0.77	0.0	82.9	FLOOD RISK
33.007	Tank (TC)	119.267	0.907	1.506	97.25	0.0	543.6	FLOOD
33.008	1285 (TC)	119.330	1.020	80.308	3.95	0.0	14.4	FLOOD
1.020	Ditch A	117.905	-1.295	0.000	0.05	0.0	158.4	OK

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

PN	US/MH Name	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
1.021	Ditch B	117.862	-1.318	0.000	0.04	0.0	158.5	OK
36.000	IC 1 (TC)	120.062	1.012	1.828	1.92	0.0	33.4	FLOOD
36.001	26a (TC)	119.901	1.001	1.295	1.54	0.0	75.1	FLOOD
36.002	27 (TC)	119.029	0.574	0.000	1.09	0.0	74.0	FLOOD RISK
36.003	28 (TC)	118.845	0.540	0.000	1.85	0.0	108.4	FLOOD RISK
37.000	IC 2 (TC)	118.975	-0.025	0.000	0.54	0.0	13.3	OK
38.000	1191 (TC)	119.433	-0.063	0.000	0.63	0.0	22.8	FLOOD RISK
39.000	1266 (TC)	119.152	0.124	0.000	0.90	0.0	22.5	FLOOD RISK
40.000	IC 3 (TC)	118.920	0.350	0.000	0.38	0.0	5.3	SURCHARGED
37.001	29 (TC)	118.914	0.499	13.986	1.81	0.0	10.6	FLOOD
36.004	30 (TC)	118.666	0.466	0.000	2.13	0.0	115.6	FLOOD RISK
36.005	31 (TC)	118.517	0.347	1.563	1.46	0.0	85.0	FLOOD
36.006	32 (TC)	118.403	0.283	2.995	1.43	0.0	84.4	FLOOD
41.000	33 (TC)	118.353	0.108	0.000	0.07	0.0	15.3	SURCHARGED
41.001	34 (TC)	118.350	0.165	0.000	0.11	0.0	22.9	SURCHARGED
36.007	35 (TC)	118.338	0.213	0.000	0.46	0.0	86.7	FLOOD RISK
36.008	36 (TC)	118.260	0.185	0.000	0.99	0.0	83.3	SURCHARGED
36.009	37 (TC)	118.053	-0.002	0.000	1.00	0.0	81.9	OK
1.022	Ditch C	117.764	-1.386	0.000	0.02	0.0	237.6	OK
1.023	Pipe	117.519	-0.451	0.000	0.34	0.0	237.8	OK
1.024	Ditch D	117.161	-1.344	0.000	0.02	0.0	236.9	OK
42.000	North FF	133.865	5.438	3928.493	1.54	0.0	1698.7	FLOOD
42.001	MH2114	129.377	2.996	1986.040	1.37	0.0	1581.2	FLOOD
43.000	537	130.367	0.897	0.000	1.30	0.0	58.2	FLOOD RISK
43.001	538	129.110	0.340	0.000	0.74	0.0	94.7	SURCHARGED
43.002	539	128.815	0.845	0.000	0.83	0.0	127.7	FLOOD RISK
43.003	540	128.685	0.915	0.000	0.93	0.0	150.8	FLOOD RISK
43.004	541	128.512	0.942	0.000	1.00	0.0	182.7	FLOOD RISK
43.005	542	127.644	0.874	0.000	0.89	0.0	223.5	FLOOD RISK
43.006	543	127.474	0.904	0.000	1.05	0.0	227.6	SURCHARGED
43.007	544	127.306	0.886	0.000	1.20	0.0	279.7	SURCHARGED
44.000	Basin5	127.211	0.836	0.000	0.01	0.0	1.8	FLOOD RISK
43.008	545 (FC)	127.211	1.201	0.000	0.02	0.0	1.9	SURCHARGED
42.002	Ex MH TBC	128.101	2.421	1451.269	1.27	0.0	1769.5	FLOOD
42.003	MH1164	126.153	3.333	1914.054	1.34	0.0	2302.5	FLOOD
42.004	MH1162	124.016	2.596	886.659	1.13	0.0	3946.9	FLOOD
45.000	Ex ditch	121.194	0.069	0.000	0.03	0.0	0.6	FLOOD RISK
46.000	Future PH21	123.146	0.281	0.000	1.04	0.0	904.8	SURCHARGED
46.001	Future PH21	122.094	1.179	0.000	0.20	0.0	8.5	FLOOD RISK
45.001	Ex ditch 1	121.194	0.369	0.000	0.72	0.0	30.9	SURCHARGED
47.000	Future PH21 a	122.519	0.394	0.000	1.05	0.0	392.7	SURCHARGED
47.001	Future PH21 b	121.895	1.170	0.000	0.04	0.0	3.6	FLOOD RISK
45.002	Ex ditch 2	121.159	0.934	0.000	1.02	0.0	33.7	SURCHARGED
45.003	Ex ditch 3	121.096	1.371	95.523	2.60	0.0	75.0	FLOOD

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

PN	US/MH Name	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m ³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
45.004	Outfall assumed	121.109	1.434	109.355	1.73	0.0	91.9	FLOOD
42.005	PI	121.714	2.764	1683.689	3.63	0.0	2725.8	FLOOD
42.006	Trb 2	118.491	-0.750	0.000	0.16	0.0	2731.2	OK
1.025	Ditch E	117.027	-0.973	0.000	0.14	0.0	2905.4	OK