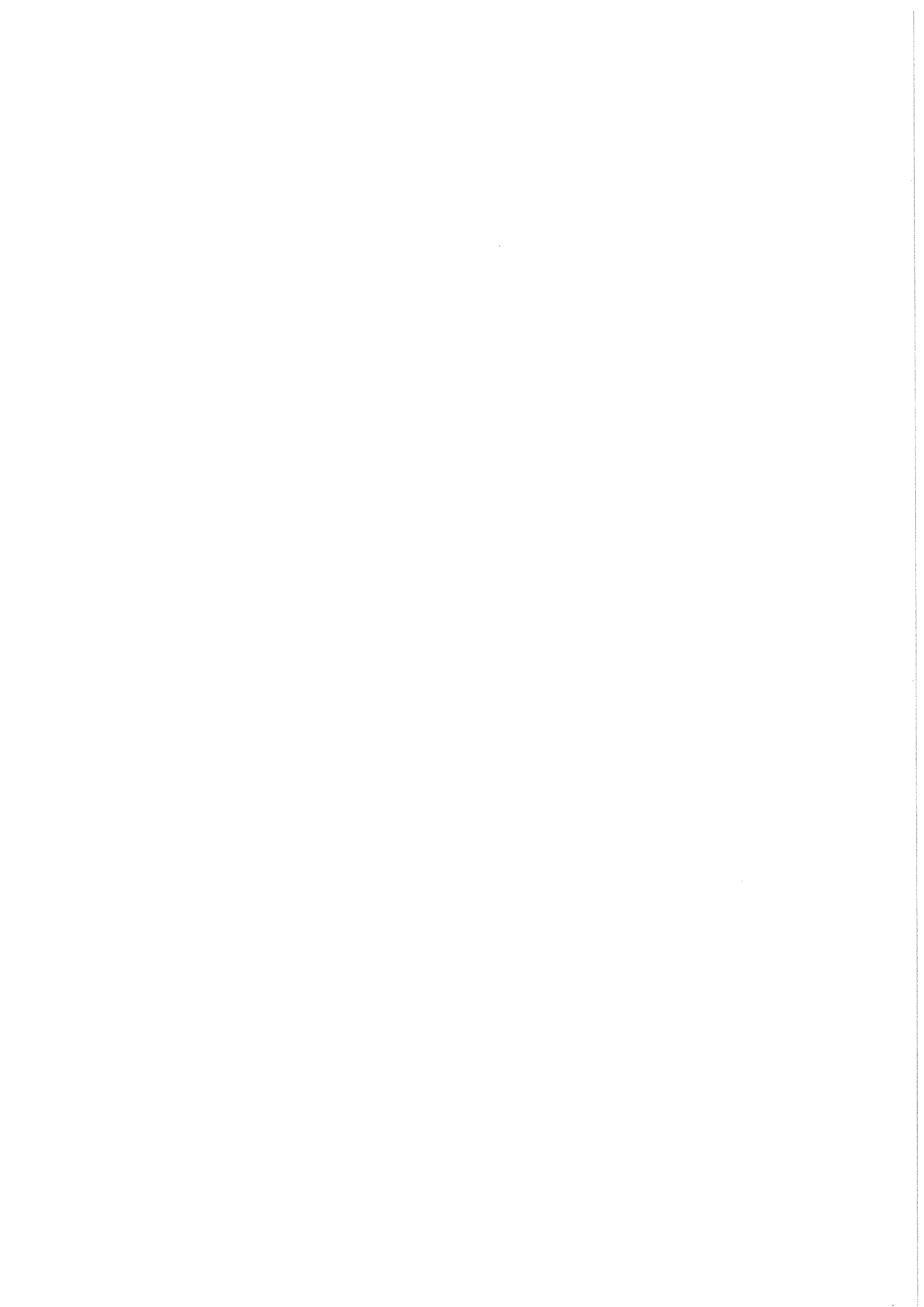


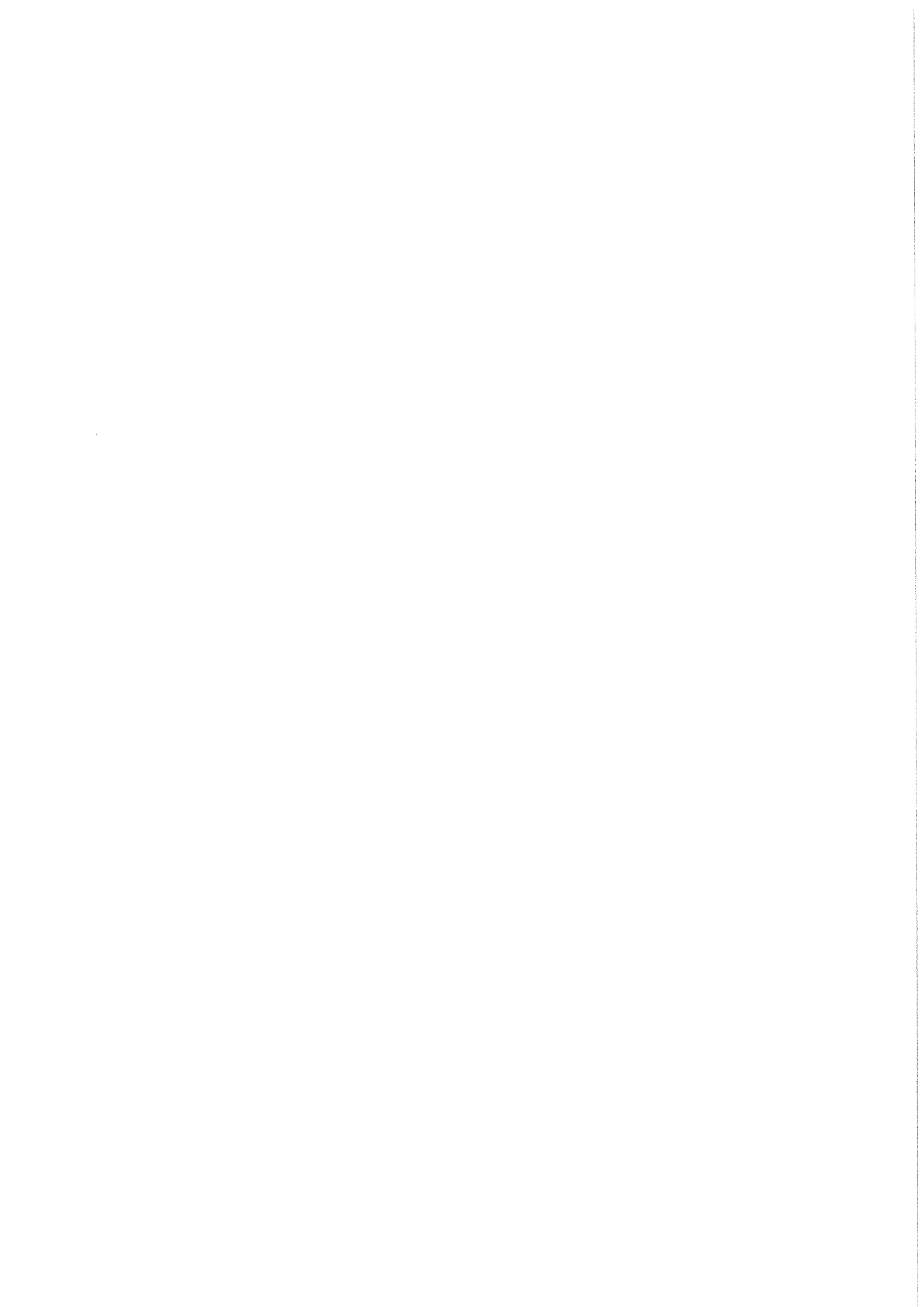
Appendix 2


Surface Water Calculations



Regional Wetland

1 Year	Free Discharge
1 Year	+3.70mOD Tide Level
30 Year	Free Discharge
30 Year	+3.70mOD Tide Level
100 Year	Free Discharge
100 Year	+3.70mOD Tide Level



J. B. Barry And Partners Ltd		Page 1
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 1YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017	Designed By SW	
File_Y17205 - Option 2 - 1YR FD -SWS Free Discharge 3...	Checked By	
Micro Drainage	Simulation W.11.2	

Global Variables

Region	FSR - Scotland & Ireland
Return Period (yrs)	1
M5-60 (mm)	15.800
Ratio R	0.300
Volumetric Runoff Coef	0.750
Profile Type	Summer
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	15
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole Headloss Coefficient	0.500
MADD Factor * 10m ³ /ha Storage	2.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	10
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	0
Number of On-Line Controls	0

Starting Storm file name

O:\Y17 Projects\Y17205 - Portmanock South Residential Project\Micro D\Fox Lands Added(B).sws

Freely Discharging Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
1.035	P1	1.800	0.900	1200	0

Tramway House
 32 Dartry Road
 Dublin 6 Ireland
 Date 29th Nov 2017
 File Y17205 - Option 2 - 1YR FD -SWS Free Discharge 3...
 Micro Drainage

Portmarnock Sth Wetland
 1YR + 10% (opt2)
 Free Discharge(300mm)
 Designed By SW
 Checked By
 Simulation W.11.2



Storage Pond at pipe 1.034 USMH Wetland

Storage Pond Invert Level (m) 1.800

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.0	3719.0	0.8	5079.0	1.6	6439.0	2.4	7799.0	3.2	7830.0	4.0	7830.0	4.8	7830.0
0.2	4059.0	1.0	5419.0	1.8	6779.0	2.6	7830.0	3.4	7830.0	4.2	7830.0	5.0	7830.0
0.4	4399.0	1.2	5759.0	2.0	7119.0	2.8	7830.0	3.6	7830.0	4.4	7830.0		
0.6	4739.0	1.4	6099.0	2.2	7459.0	3.0	7830.0	3.8	7830.0	4.6	7830.0		

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
3.002	30 Winter	1	10%	1				
1.014	30 Winter	1	10%	1				
1.015	30 Summer	1	10%	1				
4.000	15 Summer	1	10%	1				
4.001	15 Winter	1	10%	1				
4.002	15 Winter	1	10%	1				
4.003	15 Winter	1	10%	1				
4.004	15 Winter	1	10%	1				
5.000	15 Summer	1	10%	1				
5.001	15 Winter	1	10%	1				
4.005	15 Winter	1	10%	1				
6.000	15 Winter	1	10%	1				
6.001	15 Winter	1	10%	1				
7.000	15 Summer	1	10%	1				
6.002	15 Winter	1	10%	1				
4.006	15 Winter	1	10%	1				
4.007	15 Winter	1	10%	1				
8.000	15 Summer	1	10%	1				
8.001	15 Winter	1	10%	1				
8.002	15 Winter	1	10%	1				
8.003	15 Winter	1	10%	1				
4.008	15 Winter	1	10%	1				
1.016	30 Winter	1	10%	1				
1.017	30 Winter	1	10%	1	1/30 Winter			
1.018	30 Winter	1	10%	1	1/30 Winter			
9.000	15 Summer	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	3.002	9.124	-0.276	0.000	0.26	0.0	57.5	O K
	1.014	9.121	-0.119	0.000	0.63	0.0	124.8	O K
	1.015	9.040	0.000	0.000	1.06	0.0	113.6	O K
	4.000	10.952	-0.123	0.000	0.40	0.0	16.2	O K
	4.001	10.564	-0.101	0.000	0.57	0.0	22.8	O K
	4.002	10.301	-0.111	0.000	0.50	0.0	26.3	O K
	4.003	10.070	-0.105	0.000	0.55	0.0	30.3	O K
	4.004	9.533	-0.084	0.000	0.71	0.0	36.0	O K
	5.000	9.326	-0.159	0.000	0.19	0.0	6.3	O K
	5.001	9.139	-0.171	0.000	0.36	0.0	21.6	O K
	4.005	8.947	-0.127	0.000	0.63	0.0	66.3	O K
	6.000	7.201	-0.359	0.000	0.01	0.0	2.1	O K
	6.001	7.201	-0.319	0.000	0.16	0.0	39.8	O K
	7.000	8.420	-0.115	0.000	0.48	0.0	26.1	O K
	6.002	7.187	-0.263	0.000	0.28	0.0	67.7	O K
	4.006	7.168	-0.222	0.000	0.58	0.0	135.3	O K
	4.007	7.089	-0.231	0.000	0.55	0.0	137.5	O K
	8.000	10.595	-0.150	0.000	0.24	0.0	10.0	O K
	8.001	10.356	-0.134	0.000	0.33	0.0	13.0	O K
	8.002	10.260	-0.115	0.000	0.47	0.0	22.2	O K
	8.003	9.806	-0.111	0.000	0.50	0.0	28.5	O K
	4.008	7.006	-0.234	0.000	0.69	0.0	163.3	O K
	1.016	6.510	-0.040	0.000	0.49	0.0	286.7	O K
	1.017	6.493	0.003	0.000	1.08	0.0	288.7	SURCH'ED
	1.018	6.461	0.001	0.000	0.91	0.0	291.8	SURCH'ED
	9.000	8.994	-0.166	0.000	0.41	0.0	41.6	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
1.019	30 Winter	1	10%	1	1/30 Winter			
1.020	30 Winter	1	10%	1				
10.000	15 Summer	1	10%	1				
11.000	15 Winter	1	10%	1				
10.001	15 Winter	1	10%	1				
10.002	15 Winter	1	10%	1				
10.003	15 Winter	1	10%	1				
10.004	15 Winter	1	10%	1				
10.005	15 Winter	1	10%	1				
10.006	15 Winter	1	10%	1				
10.007	15 Winter	1	10%	1				
10.008	15 Winter	1	10%	1				
1.021	30 Winter	1	10%	1				
1.022	30 Winter	1	10%	1				
12.000	15 Summer	1	10%	1				
12.001	15 Winter	1	10%	1				
13.000	15 Summer	1	10%	1				
13.001	15 Winter	1	10%	1				
13.002	15 Winter	1	10%	1				
13.003	15 Winter	1	10%	1				
13.004	15 Winter	1	10%	1				
13.005	15 Winter	1	10%	1				
13.006	15 Winter	1	10%	1				
14.000	15 Summer	1	10%	1				
13.007	15 Winter	1	10%	1				
13.008	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.019	6.426	0.006	0.000	1.18	0.0	303.4	SURCH'ED
	1.020	6.390	0.000	0.000	1.14	0.0	301.6	O K
	10.000	8.023	-0.207	0.000	0.20	0.0	12.4	O K
	11.000	7.908	-0.232	0.000	0.08	0.0	4.8	O K
	10.001	7.883	-0.167	0.000	0.36	0.0	19.2	O K
	10.002	7.843	-0.157	0.000	0.42	0.0	25.2	O K
	10.003	7.793	-0.137	0.000	0.54	0.0	31.1	O K
	10.004	7.738	-0.122	0.000	0.65	0.0	37.2	O K
	10.005	7.642	-0.148	0.000	0.51	0.0	43.0	O K
	10.006	7.520	-0.185	0.000	0.51	0.0	47.6	O K
	10.007	7.438	-0.197	0.000	0.45	0.0	46.4	O K
	10.008	7.297	-0.148	0.000	0.68	0.0	45.6	O K
	1.021	6.040	-0.320	0.000	0.59	0.0	338.4	O K
	1.022	5.944	-0.306	0.000	0.55	0.0	341.5	O K
	12.000	11.845	-0.130	0.000	0.36	0.0	14.3	O K
	12.001	11.576	-0.109	0.000	0.51	0.0	20.8	O K
	13.000	13.591	-0.164	0.000	0.16	0.0	5.9	O K
	13.001	13.522	-0.143	0.000	0.28	0.0	10.1	O K
	13.002	13.387	-0.128	0.000	0.38	0.0	15.3	O K
	13.003	13.186	-0.079	0.000	0.74	0.0	26.2	O K
	13.004	13.106	-0.079	0.000	0.75	0.0	28.3	O K
	13.005	13.007	-0.078	0.000	0.75	0.0	28.9	O K
	13.006	12.804	-0.121	0.000	0.43	0.0	30.0	O K
	14.000	12.569	-0.106	0.000	0.54	0.0	28.3	O K
	13.007	11.785	-0.190	0.000	0.48	0.0	59.6	O K
	13.008	11.623	-0.252	0.000	0.24	0.0	60.0	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
13.009	15 Winter	1	10%	1				
12.002	15 Winter	1	10%	1				
12.003	15 Winter	1	10%	1				
12.004	15 Winter	1	10%	1				
12.005	15 Winter	1	10%	1				
15.000	15 Summer	1	10%	1				
15.001	15 Winter	1	10%	1				
16.000	15 Summer	1	10%	1				
15.002	15 Winter	1	10%	1				
15.003	15 Winter	1	10%	1				
15.004	15 Winter	1	10%	1				
15.005	15 Winter	1	10%	1				
15.006	15 Winter	1	10%	1				
12.006	15 Winter	1	10%	1				
17.000	15 Summer	1	10%	1				
12.007	15 Winter	1	10%	1				
18.000	15 Summer	1	10%	1				
18.001	15 Winter	1	10%	1				
18.002	15 Winter	1	10%	1				
18.003	15 Winter	1	10%	1				
12.008	15 Winter	1	10%	1				
12.009	15 Winter	1	10%	1				
12.010	15 Winter	1	10%	1				
12.011	15 Winter	1	10%	1				
12.012	15 Winter	1	10%	1				
19.000	15 Summer	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	13.009	11.256	-0.199	0.000	0.45	0.0	61.2	O K
	12.002	11.194	-0.141	0.000	0.69	0.0	91.0	O K
	12.003	10.906	-0.109	0.000	0.84	0.0	90.0	O K
	12.004	10.774	-0.171	0.000	0.57	0.0	93.3	O K
	12.005	10.503	-0.162	0.000	0.61	0.0	96.3	O K
	15.000	12.282	-0.123	0.000	0.40	0.0	15.1	O K
	15.001	12.044	-0.121	0.000	0.44	0.0	17.3	O K
	16.000	12.657	-0.118	0.000	0.44	0.0	25.6	O K
	15.002	11.916	-0.164	0.000	0.42	0.0	47.1	O K
	15.003	11.737	-0.113	0.000	0.70	0.0	49.5	O K
	15.004	11.625	-0.145	0.000	0.52	0.0	61.6	O K
	15.005	11.054	-0.221	0.000	0.35	0.0	69.9	O K
	15.006	10.707	-0.218	0.000	0.37	0.0	69.8	O K
	12.006	10.300	-0.240	0.000	0.44	0.0	162.2	O K
	17.000	9.898	-0.197	0.000	0.04	0.0	2.3	O K
	12.007	9.818	-0.162	0.000	0.73	0.0	164.9	O K
	18.000	11.222	-0.123	0.000	0.41	0.0	18.1	O K
	18.001	10.868	-0.192	0.000	0.28	0.0	36.8	O K
	18.002	10.197	-0.248	0.000	0.25	0.0	43.7	O K
	18.003	10.042	-0.203	0.000	0.42	0.0	64.8	O K
	12.008	9.637	-0.183	0.000	0.65	0.0	225.0	O K
	12.009	9.082	-0.228	0.000	0.61	0.0	232.6	O K
	12.010	8.814	-0.151	0.000	0.85	0.0	234.6	O K
	12.011	8.718	-0.117	0.000	0.96	0.0	238.2	O K
	12.012	8.637	-0.118	0.000	0.96	0.0	238.5	O K
	19.000	8.922	-0.438	0.000	0.01	0.0	2.3	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
12.013	15 Winter	1	10%	1				
12.014	15 Winter	1	10%	1				
12.015	15 Winter	1	10%	1				
12.016	15 Winter	1	10%	1				
12.017	15 Winter	1	10%	1				
1.023	30 Winter	1	10%	1				
20.000	15 Summer	1	10%	1				
20.001	15 Winter	1	10%	1				
20.002	15 Winter	1	10%	1				
20.003	15 Winter	1	10%	1				
20.004	15 Winter	1	10%	1				
20.005	15 Winter	1	10%	1				
21.000	15 Summer	1	10%	1				
20.006	15 Winter	1	10%	1				
1.024	30 Winter	1	10%	1				
22.000	15 Summer	1	10%	1				
1.025	30 Winter	1	10%	1				
23.000	15 Summer	1	10%	1				
1.026	30 Winter	1	10%	1				
1.027	30 Winter	1	10%	1				
1.028	30 Winter	1	10%	1				
1.029	30 Winter	1	10%	1				
1.030	30 Winter	1	10%	1				
24.000	15 Summer	1	10%	1				
24.001	15 Summer	1	10%	1				
25.000	15 Summer	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	12.013	8.466	-0.199	0.000	0.70	0.0	240.5	O K
	12.014	8.206	-0.259	0.000	0.51	0.0	243.2	O K
	12.015	7.849	-0.226	0.000	0.62	0.0	245.8	O K
	12.016	7.573	-0.232	0.000	0.60	0.0	246.8	O K
	12.017	7.327	-0.148	0.000	0.86	0.0	245.6	O K
	1.023	5.824	-0.216	0.000	0.79	0.0	546.1	O K
	20.000	9.203	-0.162	0.000	0.17	0.0	9.4	O K
	20.001	8.820	-0.145	0.000	0.27	0.0	14.3	O K
	20.002	8.587	-0.128	0.000	0.38	0.0	26.1	O K
	20.003	7.740	-0.085	0.000	0.70	0.0	33.9	O K
	20.004	7.341	-0.169	0.000	0.39	0.0	39.3	O K
	20.005	7.077	-0.123	0.000	0.65	0.0	39.9	O K
	21.000	7.549	-0.096	0.000	0.58	0.0	23.8	O K
	20.006	7.013	-0.147	0.000	0.51	0.0	63.7	O K
	1.024	5.784	-0.206	0.000	0.85	0.0	568.6	O K
	22.000	6.820	-0.115	0.000	0.48	0.0	21.5	O K
	1.025	5.733	-0.207	0.000	0.95	0.0	572.7	O K
	23.000	6.523	-0.212	0.000	0.01	0.0	0.9	O K
	1.026	5.690	-0.210	0.000	1.18	0.0	572.5	O K
	1.027	5.662	-0.228	0.000	0.90	0.0	569.5	O K
	1.028	5.553	-0.297	0.000	0.86	0.0	569.6	O K
	1.029	4.698	-0.592	0.000	0.40	0.0	569.5	O K
	1.030	3.665	-0.675	0.000	0.28	0.0	576.4	O K
	24.000	7.060	-0.175	0.000	0.11	0.0	8.5	O K
	24.001	6.656	-0.159	0.000	0.19	0.0	14.1	O K
	25.000	6.148	-0.177	0.000	0.10	0.0	3.9	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
24.002	15 Winter	1	10%	1				
26.000	15 Summer	1	10%	1				
26.001	15 Winter	1	10%	1				
26.002	15 Winter	1	10%	1				
24.003	15 Winter	1	10%	1				
27.000	15 Summer	1	10%	1				
27.001	15 Winter	1	10%	1				
27.002	15 Winter	1	10%	1				
27.003	15 Winter	1	10%	1				
24.004	15 Winter	1	10%	1				
24.005	15 Winter	1	10%	1				
28.000	15 Summer	1	10%	1				
28.001	15 Winter	1	10%	1				
28.002	15 Winter	1	10%	1				
24.006	15 Winter	1	10%	1				
24.007	15 Winter	1	10%	1				
24.008	15 Winter	1	10%	1				
24.009	15 Winter	1	10%	1				
24.010	15 Winter	1	10%	1				
24.011	15 Winter	1	10%	1				
24.012	30 Winter	1	10%	1				
1.031	30 Winter	1	10%	1				
29.000	15 Summer	1	10%	1				
29.001	15 Winter	1	10%	1				
30.000	15 Summer	1	10%	1				
30.001	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m ³)	Flow/ Capacity	Overflow (1/s)	Pipe Flow (1/s)	Status
	24.002	6.101	-0.124	0.000	0.41	0.0	26.2	O K
	26.000	6.791	-0.154	0.000	0.22	0.0	16.3	O K
	26.001	6.212	-0.133	0.000	0.35	0.0	26.6	O K
	26.002	5.689	-0.096	0.000	0.61	0.0	38.6	O K
	24.003	5.154	-0.126	0.000	0.62	0.0	73.5	O K
	27.000	6.759	-0.156	0.000	0.20	0.0	9.5	O K
	27.001	6.322	-0.143	0.000	0.28	0.0	13.3	O K
	27.002	6.135	-0.150	0.000	0.24	0.0	18.4	O K
	27.003	5.500	-0.135	0.000	0.33	0.0	26.1	O K
	24.004	4.307	-0.088	0.000	0.93	0.0	99.5	O K
	24.005	4.136	-0.189	0.000	0.49	0.0	100.0	O K
	28.000	5.543	-0.172	0.000	0.12	0.0	8.5	O K
	28.001	5.124	-0.151	0.000	0.23	0.0	18.3	O K
	28.002	4.087	-0.148	0.000	0.25	0.0	18.7	O K
	24.006	3.570	-0.390	0.000	0.40	0.0	117.7	O K
	24.007	3.557	-0.393	0.000	0.28	0.0	118.5	O K
	24.008	3.518	-0.332	0.000	0.56	0.0	103.5	O K
	24.009	3.481	-0.349	0.000	0.47	0.0	100.7	O K
	24.010	3.453	-0.357	0.000	0.45	0.0	99.5	O K
	24.011	3.425	-0.375	0.000	0.50	0.0	101.3	O K
	24.012	3.383	-0.397	0.000	0.40	0.0	99.0	O K
	1.031	3.362	-0.388	0.000	0.66	0.0	630.2	O K
	29.000	9.282	-0.193	0.000	0.43	0.0	50.0	O K
	29.001	9.117	-0.058	0.000	1.00	0.0	45.6	O K
	30.000	10.314	-0.311	0.000	0.07	0.0	9.3	O K
	30.001	10.202	-0.293	0.000	0.11	0.0	14.7	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
30.002	15 Winter	1	10%	1				
29.002	15 Winter	1	10%	1				
29.003	15 Winter	1	10%	1				
29.004	15 Winter	1	10%	1				
29.005	15 Winter	1	10%	1				
29.006	15 Winter	1	10%	1				
29.007	15 Winter	1	10%	1				
29.008	15 Winter	1	10%	1				
29.009	15 Winter	1	10%	1				
29.010	15 Winter	1	10%	1				
29.011	15 Winter	1	10%	1				
29.012	15 Winter	1	10%	1				
29.013	30 Winter	1	10%	1				
29.014	30 Winter	1	10%	1				
31.000	15 Summer	1	10%	1				
31.001	15 Summer	1	10%	1				
31.002	15 Summer	1	10%	1				
32.000	15 Summer	1	10%	1				
32.001	15 Summer	1	10%	1				
32.002	15 Winter	1	10%	1				
31.003	15 Winter	1	10%	1				
31.004	15 Winter	1	10%	1				
31.005	15 Winter	1	10%	1				
33.000	15 Summer	1	10%	1				
31.006	15 Winter	1	10%	1				
31.007	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.002	10.080	-0.285	0.000	0.13	0.0	18.5	O K
	29.002	9.036	-0.109	0.000	0.84	0.0	62.6	O K
	29.003	8.985	-0.130	0.000	0.75	0.0	65.9	O K
	29.004	8.924	-0.141	0.000	0.70	0.0	69.4	O K
	29.005	8.815	-0.195	0.000	0.54	0.0	72.6	O K
	29.006	8.768	-0.192	0.000	0.56	0.0	74.9	O K
	29.007	8.716	-0.194	0.000	0.62	0.0	75.7	O K
	29.008	8.680	-0.200	0.000	0.59	0.0	76.1	O K
	29.009	8.629	-0.211	0.000	0.51	0.0	77.5	O K
	29.010	8.552	-0.178	0.000	0.58	0.0	78.0	O K
	29.011	8.498	-0.172	0.000	0.55	0.0	78.6	O K
	29.012	8.458	-0.152	0.000	0.77	0.0	78.8	O K
	29.013	8.330	-0.250	0.000	0.40	0.0	86.1	O K
	29.014	7.946	-0.244	0.000	0.43	0.0	93.4	O K
	31.000	10.764	-0.396	0.000	0.03	0.0	4.1	O K
	31.001	10.687	-0.403	0.000	0.02	0.0	7.2	O K
	31.002	10.318	-0.392	0.000	0.04	0.0	9.3	O K
	32.000	10.862	-0.153	0.000	0.22	0.0	12.0	O K
	32.001	10.527	-0.138	0.000	0.31	0.0	16.5	O K
	32.002	10.303	-0.132	0.000	0.35	0.0	17.4	O K
	31.003	10.209	-0.096	0.000	0.62	0.0	30.4	O K
	31.004	9.915	-0.115	0.000	0.67	0.0	74.4	O K
	31.005	8.960	-0.120	0.000	0.67	0.0	77.0	O K
	33.000	9.216	-0.109	0.000	0.50	0.0	22.8	O K
	31.006	8.748	-0.197	0.000	0.45	0.0	107.9	O K
	31.007	8.017	-0.158	0.000	0.63	0.0	113.0	O K

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
1YR + 10% (opt2)
Free Discharge(300mm)

Date 29th Nov 2017
File Y17205 - Option 2 - 1YR FD -SWS Free Discharge 3...

Designed By SW
Checked By
Simulation W.11.2



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
29.015	30 Winter	1	10%	1				
34.000	15 Summer	1	10%	1				
34.001	15 Winter	1	10%	1				
35.000	15 Summer	1	10%	1				
35.001	15 Winter	1	10%	1				
35.002	15 Winter	1	10%	1				
35.003	15 Winter	1	10%	1				
35.004	15 Winter	1	10%	1				
35.005	15 Winter	1	10%	1				
35.006	15 Winter	1	10%	1				
35.007	15 Winter	1	10%	1				
35.008	15 Winter	1	10%	1				
35.009	15 Winter	1	10%	1				
35.010	15 Winter	1	10%	1				
35.011	15 Winter	1	10%	1				
34.002	15 Winter	1	10%	1				
34.003	15 Winter	1	10%	1				
36.000	15 Summer	1	10%	1				
36.001	15 Winter	1	10%	1				
36.002	15 Winter	1	10%	1				
36.003	15 Winter	1	10%	1				
36.004	15 Winter	1	10%	1				
36.005	15 Winter	1	10%	1				
36.006	15 Winter	1	10%	1				
36.007	15 Winter	1	10%	1				
34.004	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	29.015	7.516	-0.339	0.000	0.45	0.0	194.6	O K
	34.000	10.785	-0.205	0.000	0.21	0.0	21.0	O K
	34.001	10.365	-0.185	0.000	0.31	0.0	36.5	O K
	35.000	13.019	-0.176	0.000	0.11	0.0	4.0	O K
	35.001	12.907	-0.118	0.000	0.43	0.0	16.5	O K
	35.002	12.545	-0.110	0.000	0.51	0.0	19.1	O K
	35.003	12.392	-0.083	0.000	0.70	0.0	26.8	O K
	35.004	12.099	-0.076	0.000	0.77	0.0	27.5	O K
	35.005	11.949	-0.141	0.000	0.55	0.0	30.9	O K
	35.006	11.855	-0.175	0.000	0.36	0.0	37.9	O K
	35.007	11.337	-0.163	0.000	0.43	0.0	43.5	O K
	35.008	10.999	-0.171	0.000	0.38	0.0	48.7	O K
	35.009	10.417	-0.268	0.000	0.18	0.0	50.2	O K
	35.010	9.817	-0.283	0.000	0.30	0.0	50.3	O K
	35.011	9.743	-0.297	0.000	0.25	0.0	57.5	O K
	34.002	9.649	-0.211	0.000	0.55	0.0	93.2	O K
	34.003	9.505	-0.205	0.000	0.56	0.0	111.2	O K
	36.000	11.059	-0.166	0.000	0.15	0.0	5.9	O K
	36.001	10.984	-0.141	0.000	0.30	0.0	11.1	O K
	36.002	10.880	-0.125	0.000	0.41	0.0	16.1	O K
	36.003	10.743	-0.102	0.000	0.57	0.0	16.3	O K
	36.004	10.696	-0.119	0.000	0.45	0.0	21.4	O K
	36.005	10.279	-0.226	0.000	0.32	0.0	61.8	O K
	36.006	9.388	-0.217	0.000	0.37	0.0	63.3	O K
	36.007	9.231	-0.184	0.000	0.52	0.0	63.7	O K
	34.004	9.186	-0.204	0.000	0.57	0.0	192.1	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms


PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
34.005	15 Winter	1	10%	1				
34.006	15 Winter	1	10%	1				
34.007	15 Winter	1	10%	1				
29.016	15 Winter	1	10%	1				
29.017	15 Winter	1	10%	1				
37.000	15 Summer	1	10%	1				
29.018	15 Winter	1	10%	1				
29.019	30 Winter	1	10%	1				
29.020	30 Winter	1	10%	1				
29.021	30 Winter	1	10%	1				
38.000	15 Summer	1	10%	1				
38.001	15 Winter	1	10%	1				
29.022	30 Winter	1	10%	1				
29.023	30 Winter	1	10%	1				
39.000	15 Summer	1	10%	1				
39.001	15 Winter	1	10%	1				
39.002	15 Winter	1	10%	1				
39.003	15 Winter	1	10%	1				
39.004	15 Winter	1	10%	1				
39.005	15 Winter	1	10%	1				
39.006	15 Winter	1	10%	1				
39.007	15 Winter	1	10%	1				
39.008	15 Winter	1	10%	1				
39.009	15 Winter	1	10%	1				
39.010	15 Winter	1	10%	1				
39.011	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	34.005	8.384	-0.221	0.000	0.63	0.0	198.4	O K
	34.006	8.217	-0.218	0.000	0.64	0.0	202.5	O K
	34.007	8.031	-0.159	0.000	0.75	0.0	204.3	O K
	29.016	7.373	-0.252	0.000	0.71	0.0	393.8	O K
	29.017	7.239	-0.196	0.000	0.85	0.0	394.8	O K
	37.000	7.856	-0.079	0.000	0.75	0.0	33.7	O K
	29.018	7.011	-0.234	0.000	0.76	0.0	406.8	O K
	29.019	6.783	-0.282	0.000	0.64	0.0	412.5	O K
	29.020	6.625	-0.180	0.000	0.89	0.0	413.0	O K
	29.021	6.326	-0.359	0.000	0.45	0.0	419.5	O K
	38.000	6.092	-0.118	0.000	0.61	0.0	39.1	O K
	38.001	5.822	-0.098	0.000	0.78	0.0	43.1	O K
	29.022	5.718	-0.157	0.000	0.94	0.0	439.7	O K
	29.023	5.482	-0.313	0.000	0.56	0.0	451.3	O K
	39.000	8.202	-0.173	0.000	0.12	0.0	4.7	O K
	39.001	8.124	-0.151	0.000	0.23	0.0	8.4	O K
	39.002	8.061	-0.134	0.000	0.34	0.0	12.7	O K
	39.003	7.965	-0.120	0.000	0.44	0.0	16.4	O K
	39.004	7.926	-0.079	0.000	0.75	0.0	28.8	O K
	39.005	7.781	-0.064	0.000	0.86	0.0	29.5	O K
	39.006	7.711	-0.074	0.000	0.79	0.0	30.4	O K
	39.007	7.618	-0.067	0.000	0.83	0.0	31.3	O K
	39.008	7.449	-0.116	0.000	0.47	0.0	35.7	O K
	39.009	6.878	-0.107	0.000	0.53	0.0	39.4	O K
	39.010	6.438	-0.132	0.000	0.60	0.0	39.9	O K
	39.011	6.360	-0.215	0.000	0.38	0.0	40.4	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
40.000	15 Summer	1	10%	1				
40.001	15 Winter	1	10%	1				
40.002	15 Winter	1	10%	1				
40.003	15 Winter	1	10%	1				
40.004	15 Winter	1	10%	1				
39.012	15 Winter	1	10%	1				
39.013	15 Winter	1	10%	1				
39.014	15 Winter	1	10%	1				
39.015	15 Winter	1	10%	1				
39.016	15 Winter	1	10%	1				
41.000	15 Summer	1	10%	1				
41.001	15 Winter	1	10%	1				
41.002	15 Winter	1	10%	1				
41.003	15 Winter	1	10%	1				
41.004	15 Winter	1	10%	1				
41.005	15 Winter	1	10%	1				
39.017	15 Winter	1	10%	1				
39.018	15 Winter	1	10%	1				
39.019	15 Winter	1	10%	1				
39.020	15 Winter	1	10%	1				
39.021	15 Winter	1	10%	1				
39.022	15 Winter	1	10%	1				
42.000	15 Summer	1	10%	1				
43.000	15 Summer	1	10%	1				
43.001	15 Winter	1	10%	1				
42.001	15 Winter	1	10%	1				


Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	8.342	-0.093	0.000	0.60	0.0	26.4	O K
	40.001	7.728	-0.152	0.000	0.48	0.0	29.9	O K
	40.002	7.617	-0.163	0.000	0.42	0.0	44.1	O K
	40.003	7.106	-0.219	0.000	0.36	0.0	49.1	O K
	40.004	6.988	-0.217	0.000	0.36	0.0	71.5	O K
	39.012	6.253	-0.172	0.000	0.57	0.0	112.0	O K
	39.013	6.097	-0.078	0.000	0.98	0.0	114.6	O K
	39.014	5.999	-0.086	0.000	0.95	0.0	117.1	O K
	39.015	5.778	-0.212	0.000	0.55	0.0	121.1	O K
	39.016	5.655	-0.165	0.000	0.72	0.0	121.7	O K
	41.000	7.798	-0.142	0.000	0.47	0.0	30.9	O K
	41.001	7.454	-0.156	0.000	0.46	0.0	38.5	O K
	41.002	7.242	-0.158	0.000	0.45	0.0	52.2	O K
	41.003	6.637	-0.133	0.000	0.59	0.0	56.2	O K
	41.004	6.492	-0.108	0.000	0.73	0.0	76.3	O K
	41.005	5.945	-0.180	0.000	0.53	0.0	83.8	O K
	39.017	5.605	-0.145	0.000	0.79	0.0	204.1	O K
	39.018	5.446	-0.094	0.000	0.98	0.0	206.9	O K
	39.019	5.239	-0.161	0.000	0.74	0.0	210.2	O K
	39.020	4.946	-0.184	0.000	0.65	0.0	211.5	O K
	39.021	4.726	-0.149	0.000	0.85	0.0	212.3	O K
	39.022	4.594	-0.201	0.000	0.70	0.0	213.4	O K
	42.000	6.550	-0.105	0.000	0.52	0.0	21.4	O K
	43.000	6.961	-0.084	0.000	0.67	0.0	33.8	O K
	43.001	6.366	-0.069	0.000	0.82	0.0	38.6	O K
	42.001	6.140	-0.140	0.000	0.56	0.0	64.0	O K

J. B. Barry And Partners Ltd		Page 13
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 1YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017 File Y17205 - Option 2 - 1YR FD -SWS Free Discharge 3...	Designed By SW Checked By	
Micro Drainage		Simulation W.11.2

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
42.002	15 Winter	1	10%	1				
39.023	15 Winter	1	10%	1				
39.024	30 Winter	1	10%	1				
39.025	15 Winter	1	10%	1				
39.026	15 Winter	1	10%	1				
39.027	15 Winter	1	10%	1				
39.028	15 Winter	1	10%	1				
29.024	30 Winter	1	10%	1				
29.025	30 Winter	1	10%	1				
29.026	30 Winter	1	10%	1				
29.027	30 Winter	1	10%	1				
29.028	15 Winter	1	10%	1				
1.032	30 Winter	1	10%	1				
1.033	30 Winter	1	10%	1				
1.034	480 Winter	1	10%	1	1/30 Summer			
1.035	480 Winter	1	10%	1	1/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	42.002	5.934	-0.136	0.000	0.57	0.0	76.8	O K
	39.023	4.394	-0.161	0.000	0.67	0.0	247.3	O K
	39.024	4.360	-0.135	0.000	0.88	0.0	242.8	O K
	39.025	4.315	-0.140	0.000	0.67	0.0	243.8	O K
	39.026	4.279	-0.116	0.000	0.84	0.0	241.1	O K
	39.027	4.241	-0.114	0.000	1.18	0.0	240.7	O K
	39.028	4.079	-0.256	0.000	0.70	0.0	241.0	O K
	29.024	3.967	-0.323	0.000	0.72	0.0	692.2	O K
	29.025	3.902	-0.248	0.000	0.72	0.0	684.4	O K
	29.026	3.855	-0.195	0.000	0.72	0.0	686.7	O K
	29.027	3.801	-0.119	0.000	0.72	0.0	688.1	O K
	29.028	3.740	0.000	0.000	1.00	0.0	628.2	O K
	1.032	3.261	-0.449	0.000	1.12	0.0	1256.3	O K
	1.033	3.192	-0.498	0.000	0.84	0.0	1255.8	O K
	1.034	2.415	0.315	0.000	1.63	0.0	130.2	SURCH'ED
	1.035	1.750	0.444	0.000	2.31	0.0	130.2	SURCH'ED

J. B. Barry And Partners Ltd		Page 1
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 1YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...	Checked By	
Micro Drainage	Simulation W.11.2	

Global Variables

Region	FSR - Scotland & Ireland
Return Period (yrs)	1
M5-60 (mm)	15.800
Ratio R	0.300
Volumetric Runoff Coef	0.750
Profile Type	Summer
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	15
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole HeadLoss Coefficient	0.500
MADD Factor * 10m ³ /ha Storage	2.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	10
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	0
Number of On-Line Controls	0

Starting Storm file name

O:\Y17 Projects\Y17205 - Portmanock South Residential Project\Micro D\Fox Lands Added(B).sws

Surcharged Outfalls

Outfall			C.Level			I.Level			D,L			B		
Pipe Number	MH/No		(m)	(m)	(m)	(mm)	(mm)							
1.035	P1		1.800	0.900	1200	0								
Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
-120	3.700	2.500	-94	3.700	2.500	-68	3.700	2.500	-42	3.700	2.500	-16	3.700	2.500
-119	3.700	2.500	-93	3.700	2.500	-67	3.700	2.500	-41	3.700	2.500	-15	3.700	2.500
-118	3.700	2.500	-92	3.700	2.500	-66	3.700	2.500	-40	3.700	2.500	-14	3.700	2.500
-117	3.700	2.500	-91	3.700	2.500	-65	3.700	2.500	-39	3.700	2.500	-13	3.700	2.500
-116	3.700	2.500	-90	3.700	2.500	-64	3.700	2.500	-38	3.700	2.500	-12	3.700	2.500
-115	3.700	2.500	-89	3.700	2.500	-63	3.700	2.500	-37	3.700	2.500	-11	3.700	2.500
-114	3.700	2.500	-88	3.700	2.500	-62	3.700	2.500	-36	3.700	2.500	-10	3.700	2.500
-113	3.700	2.500	-87	3.700	2.500	-61	3.700	2.500	-35	3.700	2.500	-9	3.700	2.500
-112	3.700	2.500	-86	3.700	2.500	-60	3.700	2.500	-34	3.700	2.500	-8	3.700	2.500
-111	3.700	2.500	-85	3.700	2.500	-59	3.700	2.500	-33	3.700	2.500	-7	3.700	2.500
-110	3.700	2.500	-84	3.700	2.500	-58	3.700	2.500	-32	3.700	2.500	-6	3.700	2.500
-109	3.700	2.500	-83	3.700	2.500	-57	3.700	2.500	-31	3.700	2.500	-5	3.700	2.500
-108	3.700	2.500	-82	3.700	2.500	-56	3.700	2.500	-30	3.700	2.500	-4	3.700	2.500
-107	3.700	2.500	-81	3.700	2.500	-55	3.700	2.500	-29	3.700	2.500	-3	3.700	2.500
-106	3.700	2.500	-80	3.700	2.500	-54	3.700	2.500	-28	3.700	2.500	-2	3.700	2.500
-105	3.700	2.500	-79	3.700	2.500	-53	3.700	2.500	-27	3.700	2.500	-1	3.700	2.500
-104	3.700	2.500	-78	3.700	2.500	-52	3.700	2.500	-26	3.700	2.500	0	3.700	2.500
-103	3.700	2.500	-77	3.700	2.500	-51	3.700	2.500	-25	3.700	2.500	1	3.700	2.500
-102	3.700	2.500	-76	3.700	2.500	-50	3.700	2.500	-24	3.700	2.500	2	3.700	2.500
-101	3.700	2.500	-75	3.700	2.500	-49	3.700	2.500	-23	3.700	2.500	3	3.700	2.500
-100	3.700	2.500	-74	3.700	2.500	-48	3.700	2.500	-22	3.700	2.500	4	3.700	2.500
-99	3.700	2.500	-73	3.700	2.500	-47	3.700	2.500	-21	3.700	2.500	5	3.700	2.500
-98	3.700	2.500	-72	3.700	2.500	-46	3.700	2.500	-20	3.700	2.500	6	3.700	2.500
-97	3.700	2.500	-71	3.700	2.500	-45	3.700	2.500	-19	3.700	2.500	7	3.700	2.500
-96	3.700	2.500	-70	3.700	2.500	-44	3.700	2.500	-18	3.700	2.500	8	3.700	2.500
-95	3.700	2.500	-69	3.700	2.500	-43	3.700	2.500	-17	3.700	2.500	9	3.700	2.500

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
1YR + 10% (opt2)
3.7mOD Surcharged(300mm)



Date 29th Nov 2017

Designed By SW

File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...

Checked By

Micro Drainage

Simulation W.11.2

Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
10	3.700	2.500	71	3.700	2.500	132	3.700	2.500	193	3.700	2.500	254	3.700	2.500
11	3.700	2.500	72	3.700	2.500	133	3.700	2.500	194	3.700	2.500	255	3.700	2.500
12	3.700	2.500	73	3.700	2.500	134	3.700	2.500	195	3.700	2.500	256	3.700	2.500
13	3.700	2.500	74	3.700	2.500	135	3.700	2.500	196	3.700	2.500	257	3.700	2.500
14	3.700	2.500	75	3.700	2.500	136	3.700	2.500	197	3.700	2.500	258	3.700	2.500
15	3.700	2.500	76	3.700	2.500	137	3.700	2.500	198	3.700	2.500	259	3.700	2.500
16	3.700	2.500	77	3.700	2.500	138	3.700	2.500	199	3.700	2.500	260	3.700	2.500
17	3.700	2.500	78	3.700	2.500	139	3.700	2.500	200	3.700	2.500	261	3.700	2.500
18	3.700	2.500	79	3.700	2.500	140	3.700	2.500	201	3.700	2.500	262	3.700	2.500
19	3.700	2.500	80	3.700	2.500	141	3.700	2.500	202	3.700	2.500	263	3.700	2.500
20	3.700	2.500	81	3.700	2.500	142	3.700	2.500	203	3.700	2.500	264	3.700	2.500
21	3.700	2.500	82	3.700	2.500	143	3.700	2.500	204	3.700	2.500	265	3.700	2.500
22	3.700	2.500	83	3.700	2.500	144	3.700	2.500	205	3.700	2.500	266	3.700	2.500
23	3.700	2.500	84	3.700	2.500	145	3.700	2.500	206	3.700	2.500	267	3.700	2.500
24	3.700	2.500	85	3.700	2.500	146	3.700	2.500	207	3.700	2.500	268	3.700	2.500
25	3.700	2.500	86	3.700	2.500	147	3.700	2.500	208	3.700	2.500	269	3.700	2.500
26	3.700	2.500	87	3.700	2.500	148	3.700	2.500	209	3.700	2.500	270	3.700	2.500
27	3.700	2.500	88	3.700	2.500	149	3.700	2.500	210	3.700	2.500	271	3.700	2.500
28	3.700	2.500	89	3.700	2.500	150	3.700	2.500	211	3.700	2.500	272	3.700	2.500
29	3.700	2.500	90	3.700	2.500	151	3.700	2.500	212	3.700	2.500	273	3.700	2.500
30	3.700	2.500	91	3.700	2.500	152	3.700	2.500	213	3.700	2.500	274	3.700	2.500
31	3.700	2.500	92	3.700	2.500	153	3.700	2.500	214	3.700	2.500	275	3.700	2.500
32	3.700	2.500	93	3.700	2.500	154	3.700	2.500	215	3.700	2.500	276	3.700	2.500
33	3.700	2.500	94	3.700	2.500	155	3.700	2.500	216	3.700	2.500	277	3.700	2.500
34	3.700	2.500	95	3.700	2.500	156	3.700	2.500	217	3.700	2.500	278	3.700	2.500
35	3.700	2.500	96	3.700	2.500	157	3.700	2.500	218	3.700	2.500	279	3.700	2.500
36	3.700	2.500	97	3.700	2.500	158	3.700	2.500	219	3.700	2.500	280	3.700	2.500
37	3.700	2.500	98	3.700	2.500	159	3.700	2.500	220	3.700	2.500	281	3.700	2.500
38	3.700	2.500	99	3.700	2.500	160	3.700	2.500	221	3.700	2.500	282	3.700	2.500
39	3.700	2.500	100	3.700	2.500	161	3.700	2.500	222	3.700	2.500	283	3.700	2.500
40	3.700	2.500	101	3.700	2.500	162	3.700	2.500	223	3.700	2.500	284	3.700	2.500
41	3.700	2.500	102	3.700	2.500	163	3.700	2.500	224	3.700	2.500	285	3.700	2.500
42	3.700	2.500	103	3.700	2.500	164	3.700	2.500	225	3.700	2.500	286	3.700	2.500
43	3.700	2.500	104	3.700	2.500	165	3.700	2.500	226	3.700	2.500	287	3.700	2.500
44	3.700	2.500	105	3.700	2.500	166	3.700	2.500	227	3.700	2.500	288	3.700	2.500
45	3.700	2.500	106	3.700	2.500	167	3.700	2.500	228	3.700	2.500	289	3.700	2.500
46	3.700	2.500	107	3.700	2.500	168	3.700	2.500	229	3.700	2.500	290	3.700	2.500
47	3.700	2.500	108	3.700	2.500	169	3.700	2.500	230	3.700	2.500	291	3.700	2.500
48	3.700	2.500	109	3.700	2.500	170	3.700	2.500	231	3.700	2.500	292	3.700	2.500
49	3.700	2.500	110	3.700	2.500	171	3.700	2.500	232	3.700	2.500	293	3.700	2.500
50	3.700	2.500	111	3.700	2.500	172	3.700	2.500	233	3.700	2.500	294	3.700	2.500
51	3.700	2.500	112	3.700	2.500	173	3.700	2.500	234	3.700	2.500	295	3.700	2.500
52	3.700	2.500	113	3.700	2.500	174	3.700	2.500	235	3.700	2.500	296	3.700	2.500
53	3.700	2.500	114	3.700	2.500	175	3.700	2.500	236	3.700	2.500	297	3.700	2.500
54	3.700	2.500	115	3.700	2.500	176	3.700	2.500	237	3.700	2.500	298	3.700	2.500
55	3.700	2.500	116	3.700	2.500	177	3.700	2.500	238	3.700	2.500	299	3.700	2.500
56	3.700	2.500	117	3.700	2.500	178	3.700	2.500	239	3.700	2.500	300	3.700	2.500
57	3.700	2.500	118	3.700	2.500	179	3.700	2.500	240	3.700	2.500	301	3.700	2.500
58	3.700	2.500	119	3.700	2.500	180	3.700	2.500	241	3.700	2.500	302	3.700	2.500
59	3.700	2.500	120	3.700	2.500	181	3.700	2.500	242	3.700	2.500	303	3.700	2.500
60	3.700	2.500	121	3.700	2.500	182	3.700	2.500	243	3.700	2.500	304	3.700	2.500
61	3.700	2.500	122	3.700	2.500	183	3.700	2.500	244	3.700	2.500	305	3.700	2.500
62	3.700	2.500	123	3.700	2.500	184	3.700	2.500	245	3.700	2.500	306	3.700	2.500
63	3.700	2.500	124	3.700	2.500	185	3.700	2.500	246	3.700	2.500	307	3.700	2.500
64	3.700	2.500	125	3.700	2.500	186	3.700	2.500	247	3.700	2.500	308	3.700	2.500
65	3.700	2.500	126	3.700	2.500	187	3.700	2.500	248	3.700	2.500	309	3.700	2.500
66	3.700	2.500	127	3.700	2.500	188	3.700	2.500	249	3.700	2.500	310	3.700	2.500
67	3.700	2.500	128	3.700	2.500	189	3.700	2.500	250	3.700	2.500	311	3.700	2.500
68	3.700	2.500	129	3.700	2.500	190	3.700	2.500	251	3.700	2.500	312	3.700	2.500
69	3.700	2.500	130	3.700	2.500	191	3.700	2.500	252	3.700	2.500	313	3.700	2.500
70	3.700	2.500	131	3.700	2.500	192	3.700	2.500	253	3.700	2.500	314	3.700	2.500



Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
315	3.700	2.500	376	3.700	2.500	437	3.700	2.500	498	3.700	2.500	559	3.700	2.500
316	3.700	2.500	377	3.700	2.500	438	3.700	2.500	499	3.700	2.500	560	3.700	2.500
317	3.700	2.500	378	3.700	2.500	439	3.700	2.500	500	3.700	2.500	561	3.700	2.500
318	3.700	2.500	379	3.700	2.500	440	3.700	2.500	501	3.700	2.500	562	3.700	2.500
319	3.700	2.500	380	3.700	2.500	441	3.700	2.500	502	3.700	2.500	563	3.700	2.500
320	3.700	2.500	381	3.700	2.500	442	3.700	2.500	503	3.700	2.500	564	3.700	2.500
321	3.700	2.500	382	3.700	2.500	443	3.700	2.500	504	3.700	2.500	565	3.700	2.500
322	3.700	2.500	383	3.700	2.500	444	3.700	2.500	505	3.700	2.500	566	3.700	2.500
323	3.700	2.500	384	3.700	2.500	445	3.700	2.500	506	3.700	2.500	567	3.700	2.500
324	3.700	2.500	385	3.700	2.500	446	3.700	2.500	507	3.700	2.500	568	3.700	2.500
325	3.700	2.500	386	3.700	2.500	447	3.700	2.500	508	3.700	2.500	569	3.700	2.500
326	3.700	2.500	387	3.700	2.500	448	3.700	2.500	509	3.700	2.500	570	3.700	2.500
327	3.700	2.500	388	3.700	2.500	449	3.700	2.500	510	3.700	2.500	571	3.700	2.500
328	3.700	2.500	389	3.700	2.500	450	3.700	2.500	511	3.700	2.500	572	3.700	2.500
329	3.700	2.500	390	3.700	2.500	451	3.700	2.500	512	3.700	2.500	573	3.700	2.500
330	3.700	2.500	391	3.700	2.500	452	3.700	2.500	513	3.700	2.500	574	3.700	2.500
331	3.700	2.500	392	3.700	2.500	453	3.700	2.500	514	3.700	2.500	575	3.700	2.500
332	3.700	2.500	393	3.700	2.500	454	3.700	2.500	515	3.700	2.500	576	3.700	2.500
333	3.700	2.500	394	3.700	2.500	455	3.700	2.500	516	3.700	2.500	577	3.700	2.500
334	3.700	2.500	395	3.700	2.500	456	3.700	2.500	517	3.700	2.500	578	3.700	2.500
335	3.700	2.500	396	3.700	2.500	457	3.700	2.500	518	3.700	2.500	579	3.700	2.500
336	3.700	2.500	397	3.700	2.500	458	3.700	2.500	519	3.700	2.500	580	3.700	2.500
337	3.700	2.500	398	3.700	2.500	459	3.700	2.500	520	3.700	2.500	581	3.700	2.500
338	3.700	2.500	399	3.700	2.500	460	3.700	2.500	521	3.700	2.500	582	3.700	2.500
339	3.700	2.500	400	3.700	2.500	461	3.700	2.500	522	3.700	2.500	583	3.700	2.500
340	3.700	2.500	401	3.700	2.500	462	3.700	2.500	523	3.700	2.500	584	3.700	2.500
341	3.700	2.500	402	3.700	2.500	463	3.700	2.500	524	3.700	2.500	585	3.700	2.500
342	3.700	2.500	403	3.700	2.500	464	3.700	2.500	525	3.700	2.500	586	3.700	2.500
343	3.700	2.500	404	3.700	2.500	465	3.700	2.500	526	3.700	2.500	587	3.700	2.500
344	3.700	2.500	405	3.700	2.500	466	3.700	2.500	527	3.700	2.500	588	3.700	2.500
345	3.700	2.500	406	3.700	2.500	467	3.700	2.500	528	3.700	2.500	589	3.700	2.500
346	3.700	2.500	407	3.700	2.500	468	3.700	2.500	529	3.700	2.500	590	3.700	2.500
347	3.700	2.500	408	3.700	2.500	469	3.700	2.500	530	3.700	2.500	591	3.700	2.500
348	3.700	2.500	409	3.700	2.500	470	3.700	2.500	531	3.700	2.500	592	3.700	2.500
349	3.700	2.500	410	3.700	2.500	471	3.700	2.500	532	3.700	2.500	593	3.700	2.500
350	3.700	2.500	411	3.700	2.500	472	3.700	2.500	533	3.700	2.500	594	3.700	2.500
351	3.700	2.500	412	3.700	2.500	473	3.700	2.500	534	3.700	2.500	595	3.700	2.500
352	3.700	2.500	413	3.700	2.500	474	3.700	2.500	535	3.700	2.500	596	3.700	2.500
353	3.700	2.500	414	3.700	2.500	475	3.700	2.500	536	3.700	2.500	597	3.700	2.500
354	3.700	2.500	415	3.700	2.500	476	3.700	2.500	537	3.700	2.500	598	3.700	2.500
355	3.700	2.500	416	3.700	2.500	477	3.700	2.500	538	3.700	2.500	599	3.700	2.500
356	3.700	2.500	417	3.700	2.500	478	3.700	2.500	539	3.700	2.500	600	3.700	2.500
357	3.700	2.500	418	3.700	2.500	479	3.700	2.500	540	3.700	2.500	601	3.700	2.500
358	3.700	2.500	419	3.700	2.500	480	3.700	2.500	541	3.700	2.500	602	3.700	2.500
359	3.700	2.500	420	3.700	2.500	481	3.700	2.500	542	3.700	2.500	603	3.700	2.500
360	3.700	2.500	421	3.700	2.500	482	3.700	2.500	543	3.700	2.500	604	3.700	2.500
361	3.700	2.500	422	3.700	2.500	483	3.700	2.500	544	3.700	2.500	605	3.700	2.500
362	3.700	2.500	423	3.700	2.500	484	3.700	2.500	545	3.700	2.500	606	3.700	2.500
363	3.700	2.500	424	3.700	2.500	485	3.700	2.500	546	3.700	2.500	607	3.700	2.500
364	3.700	2.500	425	3.700	2.500	486	3.700	2.500	547	3.700	2.500	608	3.700	2.500
365	3.700	2.500	426	3.700	2.500	487	3.700	2.500	548	3.700	2.500	609	3.700	2.500
366	3.700	2.500	427	3.700	2.500	488	3.700	2.500	549	3.700	2.500	610	3.700	2.500
367	3.700	2.500	428	3.700	2.500	489	3.700	2.500	550	3.700	2.500	611	3.700	2.500
368	3.700	2.500	429	3.700	2.500	490	3.700	2.500	551	3.700	2.500	612	3.700	2.500
369	3.700	2.500	430	3.700	2.500	491	3.700	2.500	552	3.700	2.500	613	3.700	2.500
370	3.700	2.500	431	3.700	2.500	492	3.700	2.500	553	3.700	2.500	614	3.700	2.500
371	3.700	2.500	432	3.700	2.500	493	3.700	2.500	554	3.700	2.500	615	3.700	2.500
372	3.700	2.500	433	3.700	2.500	494	3.700	2.500	555	3.700	2.500	616	3.700	2.500
373	3.700	2.500	434	3.700	2.500	495	3.700	2.500	556	3.700	2.500	617	3.700	2.500
374	3.700	2.500	435	3.700	2.500	496	3.700	2.500	557	3.700	2.500	618	3.700	2.500
375	3.700	2.500	436	3.700	2.500	497	3.700	2.500	558	3.700	2.500	619	3.700	2.500

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
1YR + 10% (opt2)
3.7mOD Surcharged(300mm)



Date 29th Nov 2017
File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...

Designed By SW
Checked By

Micro Drainage Simulation W.11.2

Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
620	3.700	2.500	681	3.700	2.500	742	3.700	2.500	803	3.700	2.500	864	3.700	2.500
621	3.700	2.500	682	3.700	2.500	743	3.700	2.500	804	3.700	2.500	865	3.700	2.500
622	3.700	2.500	683	3.700	2.500	744	3.700	2.500	805	3.700	2.500	866	3.700	2.500
623	3.700	2.500	684	3.700	2.500	745	3.700	2.500	806	3.700	2.500	867	3.700	2.500
624	3.700	2.500	685	3.700	2.500	746	3.700	2.500	807	3.700	2.500	868	3.700	2.500
625	3.700	2.500	686	3.700	2.500	747	3.700	2.500	808	3.700	2.500	869	3.700	2.500
626	3.700	2.500	687	3.700	2.500	748	3.700	2.500	809	3.700	2.500	870	3.700	2.500
627	3.700	2.500	688	3.700	2.500	749	3.700	2.500	810	3.700	2.500	871	3.700	2.500
628	3.700	2.500	689	3.700	2.500	750	3.700	2.500	811	3.700	2.500	872	3.700	2.500
629	3.700	2.500	690	3.700	2.500	751	3.700	2.500	812	3.700	2.500	873	3.700	2.500
630	3.700	2.500	691	3.700	2.500	752	3.700	2.500	813	3.700	2.500	874	3.700	2.500
631	3.700	2.500	692	3.700	2.500	753	3.700	2.500	814	3.700	2.500	875	3.700	2.500
632	3.700	2.500	693	3.700	2.500	754	3.700	2.500	815	3.700	2.500	876	3.700	2.500
633	3.700	2.500	694	3.700	2.500	755	3.700	2.500	816	3.700	2.500	877	3.700	2.500
634	3.700	2.500	695	3.700	2.500	756	3.700	2.500	817	3.700	2.500	878	3.700	2.500
635	3.700	2.500	696	3.700	2.500	757	3.700	2.500	818	3.700	2.500	879	3.700	2.500
636	3.700	2.500	697	3.700	2.500	758	3.700	2.500	819	3.700	2.500	880	3.700	2.500
637	3.700	2.500	698	3.700	2.500	759	3.700	2.500	820	3.700	2.500	881	3.700	2.500
638	3.700	2.500	699	3.700	2.500	760	3.700	2.500	821	3.700	2.500	882	3.700	2.500
639	3.700	2.500	700	3.700	2.500	761	3.700	2.500	822	3.700	2.500	883	3.700	2.500
640	3.700	2.500	701	3.700	2.500	762	3.700	2.500	823	3.700	2.500	884	3.700	2.500
641	3.700	2.500	702	3.700	2.500	763	3.700	2.500	824	3.700	2.500	885	3.700	2.500
642	3.700	2.500	703	3.700	2.500	764	3.700	2.500	825	3.700	2.500	886	3.700	2.500
643	3.700	2.500	704	3.700	2.500	765	3.700	2.500	826	3.700	2.500	887	3.700	2.500
644	3.700	2.500	705	3.700	2.500	766	3.700	2.500	827	3.700	2.500	888	3.700	2.500
645	3.700	2.500	706	3.700	2.500	767	3.700	2.500	828	3.700	2.500	889	3.700	2.500
646	3.700	2.500	707	3.700	2.500	768	3.700	2.500	829	3.700	2.500	890	3.700	2.500
647	3.700	2.500	708	3.700	2.500	769	3.700	2.500	830	3.700	2.500	891	3.700	2.500
648	3.700	2.500	709	3.700	2.500	770	3.700	2.500	831	3.700	2.500	892	3.700	2.500
649	3.700	2.500	710	3.700	2.500	771	3.700	2.500	832	3.700	2.500	893	3.700	2.500
650	3.700	2.500	711	3.700	2.500	772	3.700	2.500	833	3.700	2.500	894	3.700	2.500
651	3.700	2.500	712	3.700	2.500	773	3.700	2.500	834	3.700	2.500	895	3.700	2.500
652	3.700	2.500	713	3.700	2.500	774	3.700	2.500	835	3.700	2.500	896	3.700	2.500
653	3.700	2.500	714	3.700	2.500	775	3.700	2.500	836	3.700	2.500	897	3.700	2.500
654	3.700	2.500	715	3.700	2.500	776	3.700	2.500	837	3.700	2.500	898	3.700	2.500
655	3.700	2.500	716	3.700	2.500	777	3.700	2.500	838	3.700	2.500	899	3.700	2.500
656	3.700	2.500	717	3.700	2.500	778	3.700	2.500	839	3.700	2.500	900	3.700	2.500
657	3.700	2.500	718	3.700	2.500	779	3.700	2.500	840	3.700	2.500	901	3.700	2.500
658	3.700	2.500	719	3.700	2.500	780	3.700	2.500	841	3.700	2.500	902	3.700	2.500
659	3.700	2.500	720	3.700	2.500	781	3.700	2.500	842	3.700	2.500	903	3.700	2.500
660	3.700	2.500	721	3.700	2.500	782	3.700	2.500	843	3.700	2.500	904	3.700	2.500
661	3.700	2.500	722	3.700	2.500	783	3.700	2.500	844	3.700	2.500	905	3.700	2.500
662	3.700	2.500	723	3.700	2.500	784	3.700	2.500	845	3.700	2.500	906	3.700	2.500
663	3.700	2.500	724	3.700	2.500	785	3.700	2.500	846	3.700	2.500	907	3.700	2.500
664	3.700	2.500	725	3.700	2.500	786	3.700	2.500	847	3.700	2.500	908	3.700	2.500
665	3.700	2.500	726	3.700	2.500	787	3.700	2.500	848	3.700	2.500	909	3.700	2.500
666	3.700	2.500	727	3.700	2.500	788	3.700	2.500	849	3.700	2.500	910	3.700	2.500
667	3.700	2.500	728	3.700	2.500	789	3.700	2.500	850	3.700	2.500	911	3.700	2.500
668	3.700	2.500	729	3.700	2.500	790	3.700	2.500	851	3.700	2.500	912	3.700	2.500
669	3.700	2.500	730	3.700	2.500	791	3.700	2.500	852	3.700	2.500	913	3.700	2.500
670	3.700	2.500	731	3.700	2.500	792	3.700	2.500	853	3.700	2.500	914	3.700	2.500
671	3.700	2.500	732	3.700	2.500	793	3.700	2.500	854	3.700	2.500	915	3.700	2.500
672	3.700	2.500	733	3.700	2.500	794	3.700	2.500	855	3.700	2.500	916	3.700	2.500
673	3.700	2.500	734	3.700	2.500	795	3.700	2.500	856	3.700	2.500	917	3.700	2.500
674	3.700	2.500	735	3.700	2.500	796	3.700	2.500	857	3.700	2.500	918	3.700	2.500
675	3.700	2.500	736	3.700	2.500	797	3.700	2.500	858	3.700	2.500	919	3.700	2.500
676	3.700	2.500	737	3.700	2.500	798	3.700	2.500	859	3.700	2.500	920	3.700	2.500
677	3.700	2.500	738	3.700	2.500	799	3.700	2.500	860	3.700	2.500	921	3.700	2.500
678	3.700	2.500	739	3.700	2.500	800	3.700	2.500	861	3.700	2.500	922	3.700	2.500
679	3.700	2.500	740	3.700	2.500	801	3.700	2.500	862	3.700	2.500	923	3.700	2.500
680	3.700	2.500	741	3.700	2.500	802	3.700	2.500	863	3.700	2.500	924	3.700	2.500

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
1YR + 10% (opt2)
3.7mOD Surcharged(300mm)

Date 29th Nov 2017
File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...

Designed By SW
Checked By



Micro Drainage Simulation W.11.2

Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
925	3.700	2.500	986	3.700	2.500	1047	3.700	2.500	1108	3.700	2.500	1169	3.700	2.500
926	3.700	2.500	987	3.700	2.500	1048	3.700	2.500	1109	3.700	2.500	1170	3.700	2.500
927	3.700	2.500	988	3.700	2.500	1049	3.700	2.500	1110	3.700	2.500	1171	3.700	2.500
928	3.700	2.500	989	3.700	2.500	1050	3.700	2.500	1111	3.700	2.500	1172	3.700	2.500
929	3.700	2.500	990	3.700	2.500	1051	3.700	2.500	1112	3.700	2.500	1173	3.700	2.500
930	3.700	2.500	991	3.700	2.500	1052	3.700	2.500	1113	3.700	2.500	1174	3.700	2.500
931	3.700	2.500	992	3.700	2.500	1053	3.700	2.500	1114	3.700	2.500	1175	3.700	2.500
932	3.700	2.500	993	3.700	2.500	1054	3.700	2.500	1115	3.700	2.500	1176	3.700	2.500
933	3.700	2.500	994	3.700	2.500	1055	3.700	2.500	1116	3.700	2.500	1177	3.700	2.500
934	3.700	2.500	995	3.700	2.500	1056	3.700	2.500	1117	3.700	2.500	1178	3.700	2.500
935	3.700	2.500	996	3.700	2.500	1057	3.700	2.500	1118	3.700	2.500	1179	3.700	2.500
936	3.700	2.500	997	3.700	2.500	1058	3.700	2.500	1119	3.700	2.500	1180	3.700	2.500
937	3.700	2.500	998	3.700	2.500	1059	3.700	2.500	1120	3.700	2.500	1181	3.700	2.500
938	3.700	2.500	999	3.700	2.500	1060	3.700	2.500	1121	3.700	2.500	1182	3.700	2.500
939	3.700	2.500	1000	3.700	2.500	1061	3.700	2.500	1122	3.700	2.500	1183	3.700	2.500
940	3.700	2.500	1001	3.700	2.500	1062	3.700	2.500	1123	3.700	2.500	1184	3.700	2.500
941	3.700	2.500	1002	3.700	2.500	1063	3.700	2.500	1124	3.700	2.500	1185	3.700	2.500
942	3.700	2.500	1003	3.700	2.500	1064	3.700	2.500	1125	3.700	2.500	1186	3.700	2.500
943	3.700	2.500	1004	3.700	2.500	1065	3.700	2.500	1126	3.700	2.500	1187	3.700	2.500
944	3.700	2.500	1005	3.700	2.500	1066	3.700	2.500	1127	3.700	2.500	1188	3.700	2.500
945	3.700	2.500	1006	3.700	2.500	1067	3.700	2.500	1128	3.700	2.500	1189	3.700	2.500
946	3.700	2.500	1007	3.700	2.500	1068	3.700	2.500	1129	3.700	2.500	1190	3.700	2.500
947	3.700	2.500	1008	3.700	2.500	1069	3.700	2.500	1130	3.700	2.500	1191	3.700	2.500
948	3.700	2.500	1009	3.700	2.500	1070	3.700	2.500	1131	3.700	2.500	1192	3.700	2.500
949	3.700	2.500	1010	3.700	2.500	1071	3.700	2.500	1132	3.700	2.500	1193	3.700	2.500
950	3.700	2.500	1011	3.700	2.500	1072	3.700	2.500	1133	3.700	2.500	1194	3.700	2.500
951	3.700	2.500	1012	3.700	2.500	1073	3.700	2.500	1134	3.700	2.500	1195	3.700	2.500
952	3.700	2.500	1013	3.700	2.500	1074	3.700	2.500	1135	3.700	2.500	1196	3.700	2.500
953	3.700	2.500	1014	3.700	2.500	1075	3.700	2.500	1136	3.700	2.500	1197	3.700	2.500
954	3.700	2.500	1015	3.700	2.500	1076	3.700	2.500	1137	3.700	2.500	1198	3.700	2.500
955	3.700	2.500	1016	3.700	2.500	1077	3.700	2.500	1138	3.700	2.500	1199	3.700	2.500
956	3.700	2.500	1017	3.700	2.500	1078	3.700	2.500	1139	3.700	2.500	1200	3.700	2.500
957	3.700	2.500	1018	3.700	2.500	1079	3.700	2.500	1140	3.700	2.500	1201	3.700	2.500
958	3.700	2.500	1019	3.700	2.500	1080	3.700	2.500	1141	3.700	2.500	1202	3.700	2.500
959	3.700	2.500	1020	3.700	2.500	1081	3.700	2.500	1142	3.700	2.500	1203	3.700	2.500
960	3.700	2.500	1021	3.700	2.500	1082	3.700	2.500	1143	3.700	2.500	1204	3.700	2.500
961	3.700	2.500	1022	3.700	2.500	1083	3.700	2.500	1144	3.700	2.500	1205	3.700	2.500
962	3.700	2.500	1023	3.700	2.500	1084	3.700	2.500	1145	3.700	2.500	1206	3.700	2.500
963	3.700	2.500	1024	3.700	2.500	1085	3.700	2.500	1146	3.700	2.500	1207	3.700	2.500
964	3.700	2.500	1025	3.700	2.500	1086	3.700	2.500	1147	3.700	2.500	1208	3.700	2.500
965	3.700	2.500	1026	3.700	2.500	1087	3.700	2.500	1148	3.700	2.500	1209	3.700	2.500
966	3.700	2.500	1027	3.700	2.500	1088	3.700	2.500	1149	3.700	2.500	1210	3.700	2.500
967	3.700	2.500	1028	3.700	2.500	1089	3.700	2.500	1150	3.700	2.500	1211	3.700	2.500
968	3.700	2.500	1029	3.700	2.500	1090	3.700	2.500	1151	3.700	2.500	1212	3.700	2.500
969	3.700	2.500	1030	3.700	2.500	1091	3.700	2.500	1152	3.700	2.500	1213	3.700	2.500
970	3.700	2.500	1031	3.700	2.500	1092	3.700	2.500	1153	3.700	2.500	1214	3.700	2.500
971	3.700	2.500	1032	3.700	2.500	1093	3.700	2.500	1154	3.700	2.500	1215	3.700	2.500
972	3.700	2.500	1033	3.700	2.500	1094	3.700	2.500	1155	3.700	2.500	1216	3.700	2.500
973	3.700	2.500	1034	3.700	2.500	1095	3.700	2.500	1156	3.700	2.500	1217	3.700	2.500
974	3.700	2.500	1035	3.700	2.500	1096	3.700	2.500	1157	3.700	2.500	1218	3.700	2.500
975	3.700	2.500	1036	3.700	2.500	1097	3.700	2.500	1158	3.700	2.500	1219	3.700	2.500
976	3.700	2.500	1037	3.700	2.500	1098	3.700	2.500	1159	3.700	2.500	1220	3.700	2.500
977	3.700	2.500	1038	3.700	2.500	1099	3.700	2.500	1160	3.700	2.500	1221	3.700	2.500
978	3.700	2.500	1039	3.700	2.500	1100	3.700	2.500	1161	3.700	2.500	1222	3.700	2.500
979	3.700	2.500	1040	3.700	2.500	1101	3.700	2.500	1162	3.700	2.500	1223	3.700	2.500
980	3.700	2.500	1041	3.700	2.500	1102	3.700	2.500	1163	3.700	2.500	1224	3.700	2.500
981	3.700	2.500	1042	3.700	2.500	1103	3.700	2.500	1164	3.700	2.500	1225	3.700	2.500
982	3.700	2.500	1043	3.700	2.500	1104	3.700	2.500	1165	3.700	2.500	1226	3.700	2.500
983	3.700	2.500	1044	3.700	2.500	1105	3.700	2.500	1166	3.700	2.500	1227	3.700	2.500
984	3.700	2.500	1045	3.700	2.500	1106	3.700	2.500	1167	3.700	2.500	1228	3.700	2.500
985	3.700	2.500	1046	3.700	2.500	1107	3.700	2.500	1168	3.700	2.500	1229	3.700	2.500



Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
1230	3.700	2.500	1273	3.700	2.500	1316	3.700	2.500	1359	3.700	2.500	1402	3.700	2.500
1231	3.700	2.500	1274	3.700	2.500	1317	3.700	2.500	1360	3.700	2.500	1403	3.700	2.500
1232	3.700	2.500	1275	3.700	2.500	1318	3.700	2.500	1361	3.700	2.500	1404	3.700	2.500
1233	3.700	2.500	1276	3.700	2.500	1319	3.700	2.500	1362	3.700	2.500	1405	3.700	2.500
1234	3.700	2.500	1277	3.700	2.500	1320	3.700	2.500	1363	3.700	2.500	1406	3.700	2.500
1235	3.700	2.500	1278	3.700	2.500	1321	3.700	2.500	1364	3.700	2.500	1407	3.700	2.500
1236	3.700	2.500	1279	3.700	2.500	1322	3.700	2.500	1365	3.700	2.500	1408	3.700	2.500
1237	3.700	2.500	1280	3.700	2.500	1323	3.700	2.500	1366	3.700	2.500	1409	3.700	2.500
1238	3.700	2.500	1281	3.700	2.500	1324	3.700	2.500	1367	3.700	2.500	1410	3.700	2.500
1239	3.700	2.500	1282	3.700	2.500	1325	3.700	2.500	1368	3.700	2.500	1411	3.700	2.500
1240	3.700	2.500	1283	3.700	2.500	1326	3.700	2.500	1369	3.700	2.500	1412	3.700	2.500
1241	3.700	2.500	1284	3.700	2.500	1327	3.700	2.500	1370	3.700	2.500	1413	3.700	2.500
1242	3.700	2.500	1285	3.700	2.500	1328	3.700	2.500	1371	3.700	2.500	1414	3.700	2.500
1243	3.700	2.500	1286	3.700	2.500	1329	3.700	2.500	1372	3.700	2.500	1415	3.700	2.500
1244	3.700	2.500	1287	3.700	2.500	1330	3.700	2.500	1373	3.700	2.500	1416	3.700	2.500
1245	3.700	2.500	1288	3.700	2.500	1331	3.700	2.500	1374	3.700	2.500	1417	3.700	2.500
1246	3.700	2.500	1289	3.700	2.500	1332	3.700	2.500	1375	3.700	2.500	1418	3.700	2.500
1247	3.700	2.500	1290	3.700	2.500	1333	3.700	2.500	1376	3.700	2.500	1419	3.700	2.500
1248	3.700	2.500	1291	3.700	2.500	1334	3.700	2.500	1377	3.700	2.500	1420	3.700	2.500
1249	3.700	2.500	1292	3.700	2.500	1335	3.700	2.500	1378	3.700	2.500	1421	3.700	2.500
1250	3.700	2.500	1293	3.700	2.500	1336	3.700	2.500	1379	3.700	2.500	1422	3.700	2.500
1251	3.700	2.500	1294	3.700	2.500	1337	3.700	2.500	1380	3.700	2.500	1423	3.700	2.500
1252	3.700	2.500	1295	3.700	2.500	1338	3.700	2.500	1381	3.700	2.500	1424	3.700	2.500
1253	3.700	2.500	1296	3.700	2.500	1339	3.700	2.500	1382	3.700	2.500	1425	3.700	2.500
1254	3.700	2.500	1297	3.700	2.500	1340	3.700	2.500	1383	3.700	2.500	1426	3.700	2.500
1255	3.700	2.500	1298	3.700	2.500	1341	3.700	2.500	1384	3.700	2.500	1427	3.700	2.500
1256	3.700	2.500	1299	3.700	2.500	1342	3.700	2.500	1385	3.700	2.500	1428	3.700	2.500
1257	3.700	2.500	1300	3.700	2.500	1343	3.700	2.500	1386	3.700	2.500	1429	3.700	2.500
1258	3.700	2.500	1301	3.700	2.500	1344	3.700	2.500	1387	3.700	2.500	1430	3.700	2.500
1259	3.700	2.500	1302	3.700	2.500	1345	3.700	2.500	1388	3.700	2.500	1431	3.700	2.500
1260	3.700	2.500	1303	3.700	2.500	1346	3.700	2.500	1389	3.700	2.500	1432	3.700	2.500
1261	3.700	2.500	1304	3.700	2.500	1347	3.700	2.500	1390	3.700	2.500	1433	3.700	2.500
1262	3.700	2.500	1305	3.700	2.500	1348	3.700	2.500	1391	3.700	2.500	1434	3.700	2.500
1263	3.700	2.500	1306	3.700	2.500	1349	3.700	2.500	1392	3.700	2.500	1435	3.700	2.500
1264	3.700	2.500	1307	3.700	2.500	1350	3.700	2.500	1393	3.700	2.500	1436	3.700	2.500
1265	3.700	2.500	1308	3.700	2.500	1351	3.700	2.500	1394	3.700	2.500	1437	3.700	2.500
1266	3.700	2.500	1309	3.700	2.500	1352	3.700	2.500	1395	3.700	2.500	1438	3.700	2.500
1267	3.700	2.500	1310	3.700	2.500	1353	3.700	2.500	1396	3.700	2.500	1439	3.700	2.500
1268	3.700	2.500	1311	3.700	2.500	1354	3.700	2.500	1397	3.700	2.500	1440	3.700	2.500
1269	3.700	2.500	1312	3.700	2.500	1355	3.700	2.500	1398	3.700	2.500			
1270	3.700	2.500	1313	3.700	2.500	1356	3.700	2.500	1399	3.700	2.500			
1271	3.700	2.500	1314	3.700	2.500	1357	3.700	2.500	1400	3.700	2.500			
1272	3.700	2.500	1315	3.700	2.500	1358	3.700	2.500	1401	3.700	2.500			

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
1YR + 10% (opt2)
3.7mOD Surcharged(300mm)



Date 29th Nov 2017

Designed By SW

File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...

Checked By


Micro Drainage

Simulation W.11.2

Storage Pond at pipe 1.034 USMH Wetland

Storage Pond Invert Level (m) 1.800

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.0	3719.0	0.8	5079.0	1.6	6439.0	2.4	7799.0	3.2	7830.0	4.0	7830.0	4.8	7830.0
0.2	4059.0	1.0	5419.0	1.8	6779.0	2.6	7830.0	3.4	7830.0	4.2	7830.0	5.0	7830.0
0.4	4399.0	1.2	5759.0	2.0	7119.0	2.8	7830.0	3.6	7830.0	4.4	7830.0		
0.6	4739.0	1.4	6099.0	2.2	7459.0	3.0	7830.0	3.8	7830.0	4.6	7830.0		

J. B. Barry And Partners Ltd		Page 8
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 1YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm) 300 Inertia Status OFF
DTS Status ON Analysis Time Step Fine
DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 1
Climate Change (%) 10


PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
1.000	15 Summer	1	10%	1				
1.001	15 Winter	1	10%	1				
1.002	15 Winter	1	10%	1				
1.003	15 Winter	1	10%	1				
1.004	15 Winter	1	10%	1				
1.005	15 Winter	1	10%	1				
2.000	15 Summer	1	10%	1				
2.001	15 Winter	1	10%	1				
2.002	15 Winter	1	10%	1				
2.003	15 Summer	1	10%	1				
2.004	15 Winter	1	10%	1				
1.006	15 Winter	1	10%	1				
1.007	15 Winter	1	10%	1	1/15 Winter			
1.008	15 Winter	1	10%	1				
1.009	30 Winter	1	10%	1				
1.010	30 Winter	1	10%	1				
1.011	30 Winter	1	10%	1				
1.012	30 Winter	1	10%	1				
1.013	30 Winter	1	10%	1				
3.000	15 Summer	1	10%	1				
3.001	30 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.000	10.830	-0.165	0.000	0.16	0.0	6.2	O K
	1.001	10.614	-0.141	0.000	0.29	0.0	11.9	O K
	1.002	10.344	-0.186	0.000	0.30	0.0	19.1	O K
	1.003	10.227	-0.173	0.000	0.37	0.0	22.5	O K
	1.004	10.159	-0.161	0.000	0.43	0.0	27.1	O K
	1.005	10.073	-0.109	0.000	0.50	0.0	29.7	O K
	2.000	11.523	-0.172	0.000	0.13	0.0	6.7	O K
	2.001	11.249	-0.166	0.000	0.15	0.0	8.1	O K
	2.002	11.025	-0.160	0.000	0.18	0.0	8.9	O K
	2.003	10.882	-0.153	0.000	0.22	0.0	9.4	O K
	2.004	10.805	-0.140	0.000	0.30	0.0	13.9	O K
	1.006	10.052	-0.077	0.000	0.85	0.0	56.2	O K
	1.007	9.867	0.007	0.000	1.18	0.0	54.8	SURCH'ED
	1.008	9.829	-0.001	0.000	1.00	0.0	61.4	O K
	1.009	9.534	-0.131	0.000	0.74	0.0	72.8	O K
	1.010	9.410	-0.095	0.000	0.91	0.0	75.5	O K
	1.011	9.361	-0.114	0.000	0.82	0.0	83.0	O K
	1.012	9.239	-0.076	0.000	0.88	0.0	81.6	O K
	1.013	9.196	-0.069	0.000	1.00	0.0	81.8	O K
	3.000	9.484	-0.436	0.000	0.15	0.0	62.1	O K
	3.001	9.150	-0.400	0.000	0.17	0.0	62.5	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
3.002	30 Winter	1	10%	1				
1.014	30 Winter	1	10%	1				
1.015	30 Summer	1	10%	1				
4.000	15 Summer	1	10%	1				
4.001	15 Winter	1	10%	1				
4.002	15 Winter	1	10%	1				
4.003	15 Winter	1	10%	1				
4.004	15 Winter	1	10%	1				
5.000	15 Summer	1	10%	1				
5.001	15 Winter	1	10%	1				
4.005	15 Winter	1	10%	1				
6.000	15 Winter	1	10%	1				
6.001	15 Winter	1	10%	1				
7.000	15 Summer	1	10%	1				
6.002	15 Winter	1	10%	1				
4.006	15 Winter	1	10%	1				
4.007	15 Winter	1	10%	1				
8.000	15 Summer	1	10%	1				
8.001	15 Winter	1	10%	1				
8.002	15 Winter	1	10%	1				
8.003	15 Winter	1	10%	1				
4.008	15 Winter	1	10%	1				
1.016	30 Winter	1	10%	1				
1.017	30 Winter	1	10%	1	1/30 Winter			
1.018	30 Winter	1	10%	1	1/30 Winter			
9.000	15 Summer	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (1/s)	Pipe Flow (1/s)	Status
	3.002	9.124	-0.276	0.000	0.26	0.0	57.5	O K
	1.014	9.121	-0.119	0.000	0.63	0.0	124.8	O K
	1.015	9.040	0.000	0.000	1.06	0.0	113.6	O K
	4.000	10.952	-0.123	0.000	0.40	0.0	16.2	O K
	4.001	10.564	-0.101	0.000	0.57	0.0	22.8	O K
	4.002	10.301	-0.111	0.000	0.50	0.0	26.3	O K
	4.003	10.070	-0.105	0.000	0.55	0.0	30.3	O K
	4.004	9.533	-0.084	0.000	0.71	0.0	36.0	O K
	5.000	9.326	-0.159	0.000	0.19	0.0	6.3	O K
	5.001	9.139	-0.171	0.000	0.36	0.0	21.6	O K
	4.005	8.947	-0.127	0.000	0.63	0.0	66.3	O K
	6.000	7.201	-0.359	0.000	0.01	0.0	2.1	O K
	6.001	7.201	-0.319	0.000	0.16	0.0	39.8	O K
	7.000	8.420	-0.115	0.000	0.48	0.0	26.1	O K
	6.002	7.187	-0.263	0.000	0.28	0.0	67.7	O K
	4.006	7.168	-0.222	0.000	0.58	0.0	135.3	O K
	4.007	7.089	-0.231	0.000	0.55	0.0	137.5	O K
	8.000	10.595	-0.150	0.000	0.24	0.0	10.0	O K
	8.001	10.356	-0.134	0.000	0.33	0.0	13.0	O K
	8.002	10.260	-0.115	0.000	0.47	0.0	22.2	O K
	8.003	9.806	-0.111	0.000	0.50	0.0	28.5	O K
	4.008	7.006	-0.234	0.000	0.69	0.0	163.3	O K
	1.016	6.510	-0.040	0.000	0.49	0.0	286.7	O K
	1.017	6.493	0.003	0.000	1.08	0.0	288.7	SURCH' ED
	1.018	6.461	0.001	0.000	0.91	0.0	291.8	SURCH' ED
	9.000	8.994	-0.166	0.000	0.41	0.0	41.6	O K

J. B. Barry And Partners Ltd		Page 10
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 1YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
1.019	30 Winter	1	10%	1	1/30 Winter			
1.020	30 Winter	1	10%	1				
10.000	15 Summer	1	10%	1				
11.000	15 Winter	1	10%	1				
10.001	15 Winter	1	10%	1				
10.002	15 Winter	1	10%	1				
10.003	15 Winter	1	10%	1				
10.004	15 Winter	1	10%	1				
10.005	15 Winter	1	10%	1				
10.006	15 Winter	1	10%	1				
10.007	15 Winter	1	10%	1				
10.008	15 Winter	1	10%	1				
1.021	30 Winter	1	10%	1				
1.022	30 Winter	1	10%	1				
12.000	15 Summer	1	10%	1				
12.001	15 Winter	1	10%	1				
13.000	15 Summer	1	10%	1				
13.001	15 Winter	1	10%	1				
13.002	15 Winter	1	10%	1				
13.003	15 Winter	1	10%	1				
13.004	15 Winter	1	10%	1				
13.005	15 Winter	1	10%	1				
13.006	15 Winter	1	10%	1				
14.000	15 Summer	1	10%	1				
13.007	15 Winter	1	10%	1				
13.008	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.019	6.426	0.006	0.000	1.18	0.0	303.4	SURCH'ED
	1.020	6.390	0.000	0.000	1.14	0.0	301.6	O K
	10.000	8.023	-0.207	0.000	0.20	0.0	12.4	O K
	11.000	7.908	-0.232	0.000	0.08	0.0	4.8	O K
	10.001	7.883	-0.167	0.000	0.36	0.0	19.2	O K
	10.002	7.843	-0.157	0.000	0.42	0.0	25.2	O K
	10.003	7.793	-0.137	0.000	0.54	0.0	31.1	O K
	10.004	7.738	-0.122	0.000	0.65	0.0	37.2	O K
	10.005	7.642	-0.148	0.000	0.51	0.0	43.0	O K
	10.006	7.520	-0.185	0.000	0.51	0.0	47.6	O K
	10.007	7.438	-0.197	0.000	0.45	0.0	46.4	O K
	10.008	7.297	-0.148	0.000	0.68	0.0	45.6	O K
	1.021	6.040	-0.320	0.000	0.59	0.0	338.4	O K
	1.022	5.944	-0.306	0.000	0.55	0.0	341.5	O K
	12.000	11.845	-0.130	0.000	0.36	0.0	14.3	O K
	12.001	11.576	-0.109	0.000	0.51	0.0	20.8	O K
	13.000	13.591	-0.164	0.000	0.16	0.0	5.9	O K
	13.001	13.522	-0.143	0.000	0.28	0.0	10.1	O K
	13.002	13.387	-0.128	0.000	0.38	0.0	15.3	O K
	13.003	13.186	-0.079	0.000	0.74	0.0	26.2	O K
	13.004	13.106	-0.079	0.000	0.75	0.0	28.3	O K
	13.005	13.007	-0.078	0.000	0.75	0.0	28.9	O K
	13.006	12.804	-0.121	0.000	0.43	0.0	30.0	O K
	14.000	12.569	-0.106	0.000	0.54	0.0	28.3	O K
	13.007	11.785	-0.190	0.000	0.48	0.0	59.6	O K
	13.008	11.623	-0.252	0.000	0.24	0.0	60.0	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
13.009	15 Winter	1	10%	1				
12.002	15 Winter	1	10%	1				
12.003	15 Winter	1	10%	1				
12.004	15 Winter	1	10%	1				
12.005	15 Winter	1	10%	1				
15.000	15 Summer	1	10%	1				
15.001	15 Winter	1	10%	1				
16.000	15 Summer	1	10%	1				
15.002	15 Winter	1	10%	1				
15.003	15 Winter	1	10%	1				
15.004	15 Winter	1	10%	1				
15.005	15 Winter	1	10%	1				
15.006	15 Winter	1	10%	1				
12.006	15 Winter	1	10%	1				
17.000	15 Summer	1	10%	1				
12.007	15 Winter	1	10%	1				
18.000	15 Summer	1	10%	1				
18.001	15 Winter	1	10%	1				
18.002	15 Winter	1	10%	1				
18.003	15 Winter	1	10%	1				
12.008	15 Winter	1	10%	1				
12.009	15 Winter	1	10%	1				
12.010	15 Winter	1	10%	1				
12.011	15 Winter	1	10%	1				
12.012	15 Winter	1	10%	1				
19.000	15 Summer	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	13.009	11.256	-0.199	0.000	0.45	0.0	61.2	O K
	12.002	11.194	-0.141	0.000	0.69	0.0	91.0	O K
	12.003	10.906	-0.109	0.000	0.84	0.0	90.0	O K
	12.004	10.774	-0.171	0.000	0.57	0.0	93.3	O K
	12.005	10.503	-0.162	0.000	0.61	0.0	96.3	O K
	15.000	12.282	-0.123	0.000	0.40	0.0	15.1	O K
	15.001	12.044	-0.121	0.000	0.44	0.0	17.3	O K
	16.000	12.657	-0.118	0.000	0.44	0.0	25.6	O K
	15.002	11.916	-0.164	0.000	0.42	0.0	47.1	O K
	15.003	11.737	-0.113	0.000	0.70	0.0	49.5	O K
	15.004	11.625	-0.145	0.000	0.52	0.0	61.6	O K
	15.005	11.054	-0.221	0.000	0.35	0.0	69.9	O K
	15.006	10.707	-0.218	0.000	0.37	0.0	69.8	O K
	12.006	10.300	-0.240	0.000	0.44	0.0	162.2	O K
	17.000	9.898	-0.197	0.000	0.04	0.0	2.3	O K
	12.007	9.818	-0.162	0.000	0.73	0.0	164.9	O K
	18.000	11.222	-0.123	0.000	0.41	0.0	18.1	O K
	18.001	10.868	-0.192	0.000	0.28	0.0	36.8	O K
	18.002	10.197	-0.248	0.000	0.25	0.0	43.7	O K
	18.003	10.042	-0.203	0.000	0.42	0.0	64.8	O K
	12.008	9.637	-0.183	0.000	0.65	0.0	225.0	O K
	12.009	9.082	-0.228	0.000	0.61	0.0	232.6	O K
	12.010	8.814	-0.151	0.000	0.85	0.0	234.6	O K
	12.011	8.718	-0.117	0.000	0.96	0.0	238.2	O K
	12.012	8.637	-0.118	0.000	0.96	0.0	238.5	O K
	19.000	8.922	-0.438	0.000	0.01	0.0	2.3	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
12.013	15 Winter	1	10%	1				
12.014	15 Winter	1	10%	1				
12.015	15 Winter	1	10%	1				
12.016	15 Winter	1	10%	1				
12.017	15 Winter	1	10%	1				
1.023	30 Winter	1	10%	1				
20.000	15 Summer	1	10%	1				
20.001	15 Winter	1	10%	1				
20.002	15 Winter	1	10%	1				
20.003	15 Winter	1	10%	1				
20.004	15 Winter	1	10%	1				
20.005	15 Winter	1	10%	1				
21.000	15 Summer	1	10%	1				
20.006	15 Winter	1	10%	1				
1.024	30 Winter	1	10%	1				
22.000	15 Summer	1	10%	1				
1.025	30 Winter	1	10%	1				
23.000	15 Summer	1	10%	1				
1.026	30 Winter	1	10%	1				
1.027	30 Winter	1	10%	1				
1.028	30 Winter	1	10%	1				
1.029	30 Winter	1	10%	1				
1.030	30 Winter	1	10%	1				
24.000	15 Summer	1	10%	1				
24.001	15 Summer	1	10%	1				
25.000	15 Summer	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	12.013	8.466	-0.199	0.000	0.70	0.0	240.5	O K
	12.014	8.206	-0.259	0.000	0.51	0.0	243.2	O K
	12.015	7.849	-0.226	0.000	0.62	0.0	245.8	O K
	12.016	7.573	-0.232	0.000	0.60	0.0	246.8	O K
	12.017	7.327	-0.148	0.000	0.86	0.0	245.6	O K
	1.023	5.824	-0.216	0.000	0.79	0.0	546.1	O K
	20.000	9.203	-0.162	0.000	0.17	0.0	9.4	O K
	20.001	8.820	-0.145	0.000	0.27	0.0	14.3	O K
	20.002	8.587	-0.128	0.000	0.38	0.0	26.1	O K
	20.003	7.740	-0.085	0.000	0.70	0.0	33.9	O K
	20.004	7.341	-0.169	0.000	0.39	0.0	39.3	O K
	20.005	7.077	-0.123	0.000	0.65	0.0	39.9	O K
	21.000	7.549	-0.096	0.000	0.58	0.0	23.8	O K
	20.006	7.013	-0.147	0.000	0.51	0.0	63.7	O K
	1.024	5.784	-0.206	0.000	0.85	0.0	568.6	O K
	22.000	6.820	-0.115	0.000	0.48	0.0	21.5	O K
	1.025	5.733	-0.207	0.000	0.95	0.0	572.7	O K
	23.000	6.523	-0.212	0.000	0.01	0.0	0.9	O K
	1.026	5.690	-0.210	0.000	1.18	0.0	572.5	O K
	1.027	5.662	-0.228	0.000	0.90	0.0	569.5	O K
	1.028	5.553	-0.297	0.000	0.86	0.0	569.6	O K
	1.029	4.698	-0.592	0.000	0.40	0.0	569.5	O K
	1.030	3.665	-0.675	0.000	0.28	0.0	576.4	O K
	24.000	7.060	-0.175	0.000	0.11	0.0	8.5	O K
	24.001	6.656	-0.159	0.000	0.19	0.0	14.1	O K
	25.000	6.148	-0.177	0.000	0.10	0.0	3.9	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
24.002	15 Winter	1	10%	1				
26.000	15 Summer	1	10%	1				
26.001	15 Winter	1	10%	1				
26.002	15 Winter	1	10%	1				
24.003	15 Winter	1	10%	1				
27.000	15 Summer	1	10%	1				
27.001	15 Winter	1	10%	1				
27.002	15 Winter	1	10%	1				
27.003	15 Winter	1	10%	1				
24.004	15 Winter	1	10%	1				
24.005	15 Winter	1	10%	1				
28.000	15 Summer	1	10%	1				
28.001	15 Winter	1	10%	1				
28.002	15 Winter	1	10%	1				
24.006	15 Winter	1	10%	1				
24.007	15 Winter	1	10%	1				
24.008	15 Winter	1	10%	1				
24.009	15 Winter	1	10%	1				
24.010	15 Winter	1	10%	1				
24.011	15 Winter	1	10%	1				
24.012	30 Winter	1	10%	1				
1.031	30 Winter	1	10%	1				
29.000	15 Summer	1	10%	1				
29.001	15 Winter	1	10%	1				
30.000	15 Summer	1	10%	1				
30.001	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	24.002	6.101	-0.124	0.000	0.41	0.0	26.2	O K
	26.000	6.791	-0.154	0.000	0.22	0.0	16.3	O K
	26.001	6.212	-0.133	0.000	0.35	0.0	26.6	O K
	26.002	5.689	-0.096	0.000	0.61	0.0	38.6	O K
	24.003	5.154	-0.126	0.000	0.62	0.0	73.5	O K
	27.000	6.759	-0.156	0.000	0.20	0.0	9.5	O K
	27.001	6.322	-0.143	0.000	0.28	0.0	13.3	O K
	27.002	6.135	-0.150	0.000	0.24	0.0	18.4	O K
	27.003	5.500	-0.135	0.000	0.33	0.0	26.1	O K
	24.004	4.307	-0.088	0.000	0.93	0.0	99.5	O K
	24.005	4.136	-0.189	0.000	0.49	0.0	100.0	O K
	28.000	5.543	-0.172	0.000	0.12	0.0	8.5	O K
	28.001	5.124	-0.151	0.000	0.23	0.0	18.3	O K
	28.002	4.087	-0.148	0.000	0.25	0.0	18.7	O K
	24.006	3.570	-0.390	0.000	0.40	0.0	117.7	O K
	24.007	3.557	-0.393	0.000	0.28	0.0	118.5	O K
	24.008	3.518	-0.332	0.000	0.56	0.0	103.5	O K
	24.009	3.481	-0.349	0.000	0.47	0.0	100.7	O K
	24.010	3.453	-0.357	0.000	0.45	0.0	99.5	O K
	24.011	3.425	-0.375	0.000	0.50	0.0	101.3	O K
	24.012	3.383	-0.397	0.000	0.40	0.0	99.0	O K
	1.031	3.362	-0.388	0.000	0.66	0.0	630.2	O K
	29.000	9.282	-0.193	0.000	0.43	0.0	50.0	O K
	29.001	9.117	-0.058	0.000	1.00	0.0	45.6	O K
	30.000	10.314	-0.311	0.000	0.07	0.0	9.3	O K
	30.001	10.202	-0.293	0.000	0.11	0.0	14.7	O K

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Tramway House 32 Dartry Road Dublin 6 Ireland		Portmarnock Sth Wetland 1YR + 10% (opt2) 3.7mOD Surcharged(300mm)
Date 29th Nov 2017		Designed By SW
File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...		Checked By
Micro Drainage		Simulation W.11.2



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
30.002	15 Winter	1	10%	1				
29.002	15 Winter	1	10%	1				
29.003	15 Winter	1	10%	1				
29.004	15 Winter	1	10%	1				
29.005	15 Winter	1	10%	1				
29.006	15 Winter	1	10%	1				
29.007	15 Winter	1	10%	1				
29.008	15 Winter	1	10%	1				
29.009	15 Winter	1	10%	1				
29.010	15 Winter	1	10%	1				
29.011	15 Winter	1	10%	1				
29.012	15 Winter	1	10%	1				
29.013	30 Winter	1	10%	1				
29.014	30 Winter	1	10%	1				
31.000	15 Summer	1	10%	1				
31.001	15 Summer	1	10%	1				
31.002	15 Summer	1	10%	1				
32.000	15 Summer	1	10%	1				
32.001	15 Summer	1	10%	1				
32.002	15 Winter	1	10%	1				
31.003	15 Winter	1	10%	1				
31.004	15 Winter	1	10%	1				
31.005	15 Winter	1	10%	1				
33.000	15 Summer	1	10%	1				
31.006	15 Winter	1	10%	1				
31.007	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.002	10.080	-0.285	0.000	0.13	0.0	18.5	O K
	29.002	9.036	-0.109	0.000	0.84	0.0	62.6	O K
	29.003	8.985	-0.130	0.000	0.75	0.0	65.9	O K
	29.004	8.924	-0.141	0.000	0.70	0.0	69.4	O K
	29.005	8.815	-0.195	0.000	0.54	0.0	72.6	O K
	29.006	8.768	-0.192	0.000	0.56	0.0	74.9	O K
	29.007	8.716	-0.194	0.000	0.62	0.0	75.7	O K
	29.008	8.680	-0.200	0.000	0.59	0.0	76.1	O K
	29.009	8.629	-0.211	0.000	0.51	0.0	77.5	O K
	29.010	8.552	-0.178	0.000	0.58	0.0	78.0	O K
	29.011	8.498	-0.172	0.000	0.55	0.0	78.6	O K
	29.012	8.458	-0.152	0.000	0.77	0.0	78.8	O K
	29.013	8.330	-0.250	0.000	0.40	0.0	86.1	O K
	29.014	7.946	-0.244	0.000	0.43	0.0	93.4	O K
	31.000	10.764	-0.396	0.000	0.03	0.0	4.1	O K
	31.001	10.687	-0.403	0.000	0.02	0.0	7.2	O K
	31.002	10.318	-0.392	0.000	0.04	0.0	9.3	O K
	32.000	10.862	-0.153	0.000	0.22	0.0	12.0	O K
	32.001	10.527	-0.138	0.000	0.31	0.0	16.5	O K
	32.002	10.303	-0.132	0.000	0.35	0.0	17.4	O K
	31.003	10.209	-0.096	0.000	0.62	0.0	30.4	O K
	31.004	9.915	-0.115	0.000	0.67	0.0	74.4	O K
	31.005	8.960	-0.120	0.000	0.67	0.0	77.0	O K
	33.000	9.216	-0.109	0.000	0.50	0.0	22.8	O K
	31.006	8.748	-0.197	0.000	0.45	0.0	107.9	O K
	31.007	8.017	-0.158	0.000	0.63	0.0	113.0	O K

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Tramway House 32 Dartry Road Dublin 6 Ireland		Portmarnock Sth Wetland 1YR + 10% (opt2) 3.7mOD Surcharged(300mm)
Date 29th Nov 2017 File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...		Designed By SW Checked By
Micro Drainage		Simulation W.11.2



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
29.015	30 Winter	1	10%	1				
34.000	15 Summer	1	10%	1				
34.001	15 Winter	1	10%	1				
35.000	15 Summer	1	10%	1				
35.001	15 Winter	1	10%	1				
35.002	15 Winter	1	10%	1				
35.003	15 Winter	1	10%	1				
35.004	15 Winter	1	10%	1				
35.005	15 Winter	1	10%	1				
35.006	15 Winter	1	10%	1				
35.007	15 Winter	1	10%	1				
35.008	15 Winter	1	10%	1				
35.009	15 Winter	1	10%	1				
35.010	15 Winter	1	10%	1				
35.011	15 Winter	1	10%	1				
34.002	15 Winter	1	10%	1				
34.003	15 Winter	1	10%	1				
36.000	15 Summer	1	10%	1				
36.001	15 Winter	1	10%	1				
36.002	15 Winter	1	10%	1				
36.003	15 Winter	1	10%	1				
36.004	15 Winter	1	10%	1				
36.005	15 Winter	1	10%	1				
36.006	15 Winter	1	10%	1				
36.007	15 Winter	1	10%	1				
34.004	15 Winter	1	10%	1				

LV1 Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	29.015	7.516	-0.339	0.000	0.45	0.0	194.6	O K
	34.000	10.785	-0.205	0.000	0.21	0.0	21.0	O K
	34.001	10.365	-0.185	0.000	0.31	0.0	36.5	O K
	35.000	13.019	-0.176	0.000	0.11	0.0	4.0	O K
	35.001	12.907	-0.118	0.000	0.43	0.0	16.5	O K
	35.002	12.545	-0.110	0.000	0.51	0.0	19.1	O K
	35.003	12.392	-0.083	0.000	0.70	0.0	26.8	O K
	35.004	12.099	-0.076	0.000	0.77	0.0	27.5	O K
	35.005	11.949	-0.141	0.000	0.55	0.0	30.9	O K
	35.006	11.855	-0.175	0.000	0.36	0.0	37.9	O K
	35.007	11.337	-0.163	0.000	0.43	0.0	43.5	O K
	35.008	10.999	-0.171	0.000	0.38	0.0	48.7	O K
	35.009	10.417	-0.268	0.000	0.18	0.0	50.2	O K
	35.010	9.817	-0.283	0.000	0.30	0.0	50.3	O K
	35.011	9.743	-0.297	0.000	0.25	0.0	57.5	O K
	34.002	9.649	-0.211	0.000	0.55	0.0	93.2	O K
	34.003	9.505	-0.205	0.000	0.56	0.0	111.2	O K
	36.000	11.059	-0.166	0.000	0.15	0.0	5.9	O K
	36.001	10.984	-0.141	0.000	0.30	0.0	11.1	O K
	36.002	10.880	-0.125	0.000	0.41	0.0	16.1	O K
	36.003	10.743	-0.102	0.000	0.57	0.0	16.3	O K
	36.004	10.696	-0.119	0.000	0.45	0.0	21.4	O K
	36.005	10.279	-0.226	0.000	0.32	0.0	61.8	O K
	36.006	9.388	-0.217	0.000	0.37	0.0	63.3	O K
	36.007	9.231	-0.184	0.000	0.52	0.0	63.7	O K
	34.004	9.186	-0.204	0.000	0.57	0.0	192.1	O K

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Tramway House 32 Dartry Road Dublin 6 Ireland		Portmarnock Sth Wetland 1YR + 10% (opt2) 3.7mOD Surcharged(300mm)
Date 29th Nov 2017		Designed By SW
File_Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...		Checked By
Micro Drainage		Simulation W.11.2



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
34.005	15 Winter	1	10%	1				
34.006	15 Winter	1	10%	1				
34.007	15 Winter	1	10%	1				
29.016	15 Winter	1	10%	1				
29.017	15 Winter	1	10%	1				
37.000	15 Summer	1	10%	1				
29.018	15 Winter	1	10%	1				
29.019	30 Winter	1	10%	1				
29.020	30 Winter	1	10%	1				
29.021	30 Winter	1	10%	1				
38.000	15 Summer	1	10%	1				
38.001	15 Winter	1	10%	1				
29.022	30 Winter	1	10%	1				
29.023	30 Winter	1	10%	1				
39.000	15 Summer	1	10%	1				
39.001	15 Winter	1	10%	1				
39.002	15 Winter	1	10%	1				
39.003	15 Winter	1	10%	1				
39.004	15 Winter	1	10%	1				
39.005	15 Winter	1	10%	1				
39.006	15 Winter	1	10%	1				
39.007	15 Winter	1	10%	1				
39.008	15 Winter	1	10%	1				
39.009	15 Winter	1	10%	1				
39.010	15 Winter	1	10%	1				
39.011	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	34.005	8.384	-0.221	0.000	0.63	0.0	198.4	0 K
	34.006	8.217	-0.218	0.000	0.64	0.0	202.5	0 K
	34.007	8.031	-0.159	0.000	0.75	0.0	204.3	0 K
	29.016	7.373	-0.252	0.000	0.71	0.0	393.8	0 K
	29.017	7.239	-0.196	0.000	0.85	0.0	394.8	0 K
	37.000	7.856	-0.079	0.000	0.75	0.0	33.7	0 K
	29.018	7.011	-0.234	0.000	0.76	0.0	406.8	0 K
	29.019	6.783	-0.282	0.000	0.64	0.0	412.5	0 K
	29.020	6.625	-0.180	0.000	0.89	0.0	413.0	0 K
	29.021	6.326	-0.359	0.000	0.45	0.0	419.5	0 K
	38.000	6.092	-0.118	0.000	0.61	0.0	39.1	0 K
	38.001	5.822	-0.098	0.000	0.78	0.0	43.1	0 K
	29.022	5.718	-0.157	0.000	0.94	0.0	439.7	0 K
	29.023	5.482	-0.313	0.000	0.56	0.0	451.3	0 K
	39.000	8.202	-0.173	0.000	0.12	0.0	4.7	0 K
	39.001	8.124	-0.151	0.000	0.23	0.0	8.4	0 K
	39.002	8.061	-0.134	0.000	0.34	0.0	12.7	0 K
	39.003	7.965	-0.120	0.000	0.44	0.0	16.4	0 K
	39.004	7.926	-0.079	0.000	0.75	0.0	28.8	0 K
	39.005	7.781	-0.064	0.000	0.86	0.0	29.5	0 K
	39.006	7.711	-0.074	0.000	0.79	0.0	30.4	0 K
	39.007	7.618	-0.067	0.000	0.83	0.0	31.3	0 K
	39.008	7.449	-0.116	0.000	0.47	0.0	35.7	0 K
	39.009	6.878	-0.107	0.000	0.53	0.0	39.4	0 K
	39.010	6.438	-0.132	0.000	0.60	0.0	39.9	0 K
	39.011	6.360	-0.215	0.000	0.38	0.0	40.4	0 K

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Tramway House 32 Dartry Road Dublin 6 Ireland		Portmarnock Sth Wetland 1YR + 10% (opt2) 3.7mOD Surcharged(300mm)
Date 29th Nov 2017		Designed By SW
File_Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...		Checked By
Micro Drainage		Simulation W.11.2



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
40.000	15 Summer	1	10%	1				
40.001	15 Winter	1	10%	1				
40.002	15 Winter	1	10%	1				
40.003	15 Winter	1	10%	1				
40.004	15 Winter	1	10%	1				
39.012	15 Winter	1	10%	1				
39.013	15 Winter	1	10%	1				
39.014	15 Winter	1	10%	1				
39.015	15 Winter	1	10%	1				
39.016	15 Winter	1	10%	1				
41.000	15 Summer	1	10%	1				
41.001	15 Winter	1	10%	1				
41.002	15 Winter	1	10%	1				
41.003	15 Winter	1	10%	1				
41.004	15 Winter	1	10%	1				
41.005	15 Winter	1	10%	1				
39.017	15 Winter	1	10%	1				
39.018	15 Winter	1	10%	1				
39.019	15 Winter	1	10%	1				
39.020	15 Winter	1	10%	1				
39.021	15 Winter	1	10%	1				
39.022	15 Winter	1	10%	1				
42.000	15 Summer	1	10%	1				
43.000	15 Summer	1	10%	1				
43.001	15 Winter	1	10%	1				
42.001	15 Winter	1	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	8.342	-0.093	0.000	0.60	0.0	26.4	O K
	40.001	7.728	-0.152	0.000	0.48	0.0	29.9	O K
	40.002	7.617	-0.163	0.000	0.42	0.0	44.1	O K
	40.003	7.106	-0.219	0.000	0.36	0.0	49.1	O K
	40.004	6.988	-0.217	0.000	0.36	0.0	71.5	O K
	39.012	6.253	-0.172	0.000	0.57	0.0	112.0	O K
	39.013	6.097	-0.078	0.000	0.98	0.0	114.6	O K
	39.014	5.999	-0.086	0.000	0.95	0.0	117.1	O K
	39.015	5.778	-0.212	0.000	0.55	0.0	121.1	O K
	39.016	5.655	-0.165	0.000	0.72	0.0	121.7	O K
	41.000	7.798	-0.142	0.000	0.47	0.0	30.9	O K
	41.001	7.454	-0.156	0.000	0.46	0.0	38.5	O K
	41.002	7.242	-0.158	0.000	0.45	0.0	52.2	O K
	41.003	6.637	-0.133	0.000	0.59	0.0	56.2	O K
	41.004	6.492	-0.108	0.000	0.73	0.0	76.3	O K
	41.005	5.945	-0.180	0.000	0.53	0.0	83.8	O K
	39.017	5.605	-0.145	0.000	0.79	0.0	204.1	O K
	39.018	5.446	-0.094	0.000	0.98	0.0	206.9	O K
	39.019	5.239	-0.161	0.000	0.74	0.0	210.2	O K
	39.020	4.946	-0.184	0.000	0.65	0.0	211.5	O K
	39.021	4.726	-0.149	0.000	0.85	0.0	212.3	O K
	39.022	4.594	-0.201	0.000	0.70	0.0	213.4	O K
	42.000	6.550	-0.105	0.000	0.52	0.0	21.4	O K
	43.000	6.961	-0.084	0.000	0.67	0.0	33.8	O K
	43.001	6.366	-0.069	0.000	0.82	0.0	38.6	O K
	42.001	6.140	-0.140	0.000	0.56	0.0	64.0	O K

Tramway House
32 Darry Road
Dublin 6 Ireland
Date 29th Nov 2017
File Y17205 - Option 2 - 1YR SWS Surcharged (+3.7m) 3...
Micro Drainage


Portmarnock Sth Wetland
1YR + 10% (opt2)
3.7mOD Surcharged(300mm)
Designed By SW
Checked By
Simulation W.11.2



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
42.002	15 Winter	1	10%	1				
39.023	15 Winter	1	10%	1				
39.024	30 Winter	1	10%	1				
39.025	15 Winter	1	10%	1				
39.026	15 Winter	1	10%	1				
39.027	15 Winter	1	10%	1				
39.028	15 Winter	1	10%	1				
29.024	30 Winter	1	10%	1				
29.025	30 Winter	1	10%	1				
29.026	30 Winter	1	10%	1				
29.027	30 Winter	1	10%	1				
29.028	15 Winter	1	10%	1				
1.032	30 Winter	1	10%	1				
1.033	30 Winter	1	10%	1				
1.034	1440 Winter	1	10%	1	1/30 Summer			
1.035	1440 Winter	1	10%	1	1/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	42.002	5.934	-0.136	0.000	0.57	0.0	76.8	O K
	39.023	4.394	-0.161	0.000	0.67	0.0	247.3	O K
	39.024	4.360	-0.135	0.000	0.88	0.0	242.8	O K
	39.025	4.315	-0.140	0.000	0.67	0.0	243.8	O K
	39.026	4.279	-0.116	0.000	0.84	0.0	241.1	O K
	39.027	4.241	-0.114	0.000	1.18	0.0	240.7	O K
	39.028	4.079	-0.256	0.000	0.70	0.0	241.0	O K
	29.024	3.967	-0.323	0.000	0.72	0.0	692.2	O K
	29.025	3.902	-0.248	0.000	0.72	0.0	684.4	O K
	29.026	3.855	-0.195	0.000	0.72	0.0	686.7	O K
	29.027	3.801	-0.119	0.000	0.72	0.0	688.1	O K
	29.028	3.740	0.000	0.000	1.00	0.0	628.2	O K
	1.032	3.261	-0.449	0.000	1.12	0.0	1256.3	O K
	1.033	3.192	-0.498	0.000	0.84	0.0	1255.8	O K
	1.034	2.998	0.898	0.000	2.06	0.0	164.6	SURCH'ED
	1.035	3.828	2.522	0.000	2.92	0.0	164.7	SURCH'ED

J. B. Barry And Partners Ltd		Page 1
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 30YR FD -SWS Free Discharge ...	Checked By	
Micro Drainage	Simulation W.11.2	

Global Variables

Region	FSR - Scotland & Ireland
Return Period (yrs)	30
M5-60 (mm)	15.800
Ratio R	0.300
Volumetric Runoff Coef	0.750
Profile Type	Summer
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	15
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole Headloss Coefficient	0.500
MADD Factor * 10m ³ /ha Storage	2.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	10
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	0
Number of On-Line Controls	0

Starting Storm file name

O:\Y17 Projects\Y17205 - Portmanock South Residential Project\Micro D\Fox Lands Added(B).sws

Freely Discharging Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
1.035	P1	1.800	0.900	1200	0

J. B. Barry And Partners Ltd		Page 2
Tramway House 32 Dartry Road Dublin 6 Ireland		Portmarnock Sth Wetland 30YR + 10% (opt2) Free Discharge(300mm)
Date 29th Nov 2017		Designed By SW
File Y17205 - Option 2 - 30YR FD -SWS Free Discharge ...		Checked By
Micro Drainage		Simulation W.11.2



Storage Pond at pipe 1.034 USMH Wetland

Storage Pond Invert Level (m) 1.800

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.0	3719.0	0.8	5079.0	1.6	6439.0	2.4	7799.0	3.2	7830.0	4.0	7830.0	4.8	7830.0
0.2	4059.0	1.0	5419.0	1.8	6779.0	2.6	7830.0	3.4	7830.0	4.2	7830.0	5.0	7830.0
0.4	4399.0	1.2	5759.0	2.0	7119.0	2.8	7830.0	3.6	7830.0	4.4	7830.0		
0.6	4739.0	1.4	6099.0	2.2	7459.0	3.0	7830.0	3.8	7830.0	4.6	7830.0		

Tramway House
 32 Dartry Road
 Dublin 6 Ireland
 Date 29th Nov 2017
 File Y17205 - Option 2 - 30YR FD -SWS Free Discharge ...
 Micro Drainage

Portmarnock Sth Wetland
 30YR + 10% (opt2)
 Free Discharge(300mm)
 Designed By SW
 Checked By
 Simulation W.11.2




Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
 Results for Design Storms

Margin for Flood Risk warning (mm) 300 Inertia Status OFF
 DTS Status ON Analysis Time Step Fine
 DVD Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 30
 Climate Change (%) 10

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
1.000	30 Winter	30	10%	1	30/30 Summer			
1.001	30 Winter	30	10%	1	30/15 Summer			
1.002	30 Winter	30	10%	1	30/15 Summer			
1.003	30 Winter	30	10%	1	30/15 Summer			
1.004	30 Winter	30	10%	1	30/15 Summer			
1.005	30 Winter	30	10%	1	30/15 Summer			
2.000	15 Summer	30	10%	1				
2.001	15 Summer	30	10%	1				
2.002	15 Summer	30	10%	1				
2.003	30 Winter	30	10%	1				
2.004	30 Winter	30	10%	1	30/15 Winter			
1.006	30 Winter	30	10%	1	30/15 Summer			
1.007	30 Winter	30	10%	1	30/15 Summer			
1.008	30 Winter	30	10%	1	30/15 Summer			
1.009	30 Winter	30	10%	1	30/15 Summer			
1.010	30 Winter	30	10%	1	30/15 Summer			
1.011	30 Winter	30	10%	1	30/15 Summer			
1.012	30 Winter	30	10%	1	30/15 Summer			
1.013	30 Winter	30	10%	1	30/15 Summer			
3.000	15 Summer	30	10%	1				
3.001	30 Winter	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.000	11.101	0.106	0.000	0.28	0.0	11.0	SURCH'ED
	1.001	11.089	0.334	0.000	0.53	0.0	21.8	SURCH'ED
	1.002	11.062	0.532	0.000	0.46	0.0	29.1	SURCH'ED
	1.003	11.041	0.641	0.000	0.59	0.0	36.1	SURCH'ED
	1.004	11.020	0.700	0.000	0.67	0.0	42.3	SURCH'ED
	1.005	10.986	0.804	0.000	0.83	0.0	49.5	SURCH'ED
	2.000	11.551	-0.144	0.000	0.28	0.0	14.9	O K
	2.001	11.283	-0.132	0.000	0.36	0.0	18.8	O K
	2.002	11.063	-0.122	0.000	0.43	0.0	21.2	O K
	2.003	11.007	-0.028	0.000	0.42	0.0	17.8	O K
	2.004	10.997	0.052	0.000	0.59	0.0	27.0	SURCH'ED
	1.006	10.967	0.838	0.000	1.11	0.0	73.1	SURCH'ED
	1.007	10.701	0.841	0.000	1.57	0.0	72.9	SURCH'ED
	1.008	10.628	0.798	0.000	1.44	0.0	88.5	SURCH'ED
	1.009	10.276	0.611	0.000	1.15	0.0	112.5	SURCH'ED
	1.010	10.069	0.564	0.000	1.43	0.0	118.2	SURCH'ED
	1.011	9.979	0.504	0.000	1.33	0.0	134.8	SURCH'ED
	1.012	9.697	0.382	0.000	1.47	0.0	136.0	SURCH'ED
	1.013	9.576	0.311	0.000	1.69	0.0	137.9	SURCH'ED
	3.000	9.573	-0.347	0.000	0.34	0.0	137.6	O K
	3.001	9.479	-0.071	0.000	0.30	0.0	109.4	O K

J. B. Barry And Partners Ltd		Page 4
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 30YR FD -SWS Free Discharge ...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
3.002	30 Winter	30	10%	1	30/30 Summer			
1.014	30 Winter	30	10%	1	30/15 Summer			
1.015	30 Winter	30	10%	1	30/15 Summer			
4.000	15 Winter	30	10%	1	30/15 Winter			
4.001	15 Winter	30	10%	1	30/15 Summer			
4.002	15 Winter	30	10%	1	30/15 Summer			
4.003	15 Winter	30	10%	1	30/15 Summer			
4.004	15 Winter	30	10%	1	30/15 Summer			
5.000	15 Winter	30	10%	1				
5.001	15 Winter	30	10%	1	30/15 Summer			
4.005	15 Winter	30	10%	1	30/15 Summer			
6.000	30 Winter	30	10%	1	30/30 Summer			
6.001	30 Winter	30	10%	1	30/15 Summer			
7.000	15 Winter	30	10%	1	30/15 Summer			
6.002	30 Winter	30	10%	1	30/15 Summer			
4.006	30 Winter	30	10%	1	30/15 Summer			
4.007	30 Winter	30	10%	1	30/15 Summer			
8.000	15 Summer	30	10%	1				
8.001	15 Winter	30	10%	1	30/15 Summer			
8.002	15 Winter	30	10%	1	30/15 Summer			
8.003	15 Winter	30	10%	1	30/15 Summer			
4.008	30 Winter	30	10%	1	30/15 Summer			
1.016	30 Winter	30	10%	1	30/15 Summer			
1.017	30 Winter	30	10%	1	30/15 Summer			
1.018	30 Winter	30	10%	1	30/15 Summer			
9.000	15 Summer	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	3.002	9.459	0.059	0.000	0.41	0.0	89.0	SURCH'ED
	1.014	9.452	0.212	0.000	1.19	0.0	235.4	SURCH'ED
	1.015	9.165	0.125	0.000	2.22	0.0	237.3	SURCH'ED
	4.000	11.080	0.005	0.000	0.86	0.0	35.0	SURCH'ED
	4.001	10.827	0.162	0.000	1.12	0.0	44.8	SURCH'ED
	4.002	10.538	0.126	0.000	0.94	0.0	49.3	SURCH'ED
	4.003	10.329	0.154	0.000	1.00	0.0	55.9	SURCH'ED
	4.004	9.778	0.161	0.000	1.33	0.0	67.5	SURCH'ED
	5.000	9.446	-0.039	0.000	0.42	0.0	13.7	O K
	5.001	9.423	0.113	0.000	0.80	0.0	48.7	SURCH'ED
	4.005	9.323	0.249	0.000	1.21	0.0	127.9	SURCH'ED
	6.000	7.910	0.350	0.000	0.03	0.0	5.8	SURCH'ED
	6.001	7.910	0.390	0.000	0.34	0.0	81.7	SURCH'ED
	7.000	8.578	0.043	0.000	1.04	0.0	55.8	SURCH'ED
	6.002	7.903	0.453	0.000	0.61	0.0	145.1	SURCH'ED
	4.006	7.890	0.500	0.000	1.19	0.0	276.9	SURCH'ED
	4.007	7.841	0.521	0.000	1.14	0.0	287.1	SURCH'ED
	8.000	10.639	-0.106	0.000	0.54	0.0	22.1	O K
	8.001	10.516	0.026	0.000	0.71	0.0	27.6	SURCH'ED
	8.002	10.468	0.093	0.000	1.00	0.0	47.6	SURCH'ED
	8.003	10.000	0.083	0.000	1.09	0.0	61.8	SURCH'ED
	4.008	7.780	0.540	0.000	1.46	0.0	346.0	SURCH'ED
	1.016	7.669	1.119	0.000	0.97	0.0	572.4	SURCH'ED
	1.017	7.619	1.129	0.000	2.11	0.0	566.3	SURCH'ED
	1.018	7.544	1.084	0.000	1.77	0.0	567.5	SURCH'ED
	9.000	9.085	-0.075	0.000	0.92	0.0	92.3	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
1.019	30 Winter	30	10%	1	30/15 Summer			
1.020	30 Winter	30	10%	1	30/15 Summer			
10.000	15 Winter	30	10%	1				
11.000	15 Winter	30	10%	1				
10.001	15 Winter	30	10%	1	30/15 Summer			
10.002	15 Winter	30	10%	1	30/15 Summer			
10.003	15 Winter	30	10%	1	30/15 Summer			
10.004	15 Winter	30	10%	1	30/15 Summer			
10.005	15 Winter	30	10%	1	30/15 Summer			
10.006	15 Winter	30	10%	1				
10.007	15 Winter	30	10%	1				
10.008	30 Summer	30	10%	1	30/15 Summer			
1.021	30 Winter	30	10%	1	30/15 Summer			
1.022	30 Winter	30	10%	1	30/15 Summer			
12.000	15 Winter	30	10%	1	30/15 Winter			
12.001	15 Winter	30	10%	1	30/15 Summer			
13.000	15 Winter	30	10%	1				
13.001	15 Winter	30	10%	1	30/15 Summer			
13.002	15 Winter	30	10%	1	30/15 Summer			
13.003	15 Winter	30	10%	1	30/15 Summer			
13.004	15 Winter	30	10%	1	30/15 Summer			
13.005	15 Winter	30	10%	1	30/15 Summer			
13.006	15 Winter	30	10%	1				
14.000	15 Winter	30	10%	1	30/15 Summer			
13.007	15 Winter	30	10%	1				
13.008	15 Winter	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.019	7.450	1.030	0.000	2.35	0.0	604.0	SURCH'ED
	1.020	7.353	0.963	0.000	2.29	0.0	604.6	SURCH'ED
	10.000	8.136	-0.094	0.000	0.44	0.0	27.9	O K
	11.000	8.112	-0.028	0.000	0.15	0.0	9.2	O K
	10.001	8.105	0.055	0.000	0.74	0.0	39.5	SURCH'ED
	10.002	8.078	0.078	0.000	0.82	0.0	48.6	SURCH'ED
	10.003	8.036	0.106	0.000	1.00	0.0	57.9	SURCH'ED
	10.004	7.971	0.111	0.000	1.23	0.0	70.4	SURCH'ED
	10.005	7.866	0.076	0.000	0.99	0.0	84.4	SURCH'ED
	10.006	7.705	0.000	0.000	1.01	0.0	95.1	O K
	10.007	7.599	-0.036	0.000	0.87	0.0	90.4	O K
	10.008	7.448	0.003	0.000	1.31	0.0	88.0	SURCH'ED
	1.021	7.224	0.864	0.000	1.21	0.0	686.7	SURCH'ED
	1.022	7.030	0.780	0.000	1.11	0.0	695.8	SURCH'ED
	12.000	11.996	0.021	0.000	0.78	0.0	31.2	SURCH'ED
	12.001	11.894	0.209	0.000	0.94	0.0	38.3	SURCH'ED
	13.000	13.741	-0.014	0.000	0.35	0.0	12.3	O K
	13.001	13.724	0.059	0.000	0.60	0.0	21.7	SURCH'ED
	13.002	13.684	0.169	0.000	0.68	0.0	27.5	SURCH'ED
	13.003	13.577	0.312	0.000	1.39	0.0	49.4	SURCH'ED
	13.004	13.418	0.233	0.000	1.39	0.0	52.6	SURCH'ED
	13.005	13.228	0.143	0.000	1.39	0.0	53.8	SURCH'ED
	13.006	12.856	-0.069	0.000	0.81	0.0	56.2	O K
	14.000	12.813	0.138	0.000	1.08	0.0	56.6	SURCH'ED
	13.007	11.920	-0.055	0.000	1.00	0.0	123.6	O K
	13.008	11.832	-0.043	0.000	0.47	0.0	119.0	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
13.009	15 Winter	30	10%	1	30/15 Summer			
12.002	15 Winter	30	10%	1	30/15 Summer			
12.003	15 Winter	30	10%	1	30/15 Summer			
12.004	15 Winter	30	10%	1	30/15 Summer			
12.005	15 Winter	30	10%	1	30/15 Summer			
15.000	15 Winter	30	10%	1				
15.001	15 Winter	30	10%	1	30/15 Summer			
16.000	15 Winter	30	10%	1	30/15 Winter			
15.002	15 Winter	30	10%	1	30/15 Summer			
15.003	15 Winter	30	10%	1	30/15 Summer			
15.004	15 Winter	30	10%	1	30/15 Summer			
15.005	15 Winter	30	10%	1				
15.006	15 Winter	30	10%	1				
12.006	15 Winter	30	10%	1	30/15 Summer			
17.000	15 Winter	30	10%	1	30/15 Summer			
12.007	15 Winter	30	10%	1	30/15 Summer			
18.000	15 Summer	30	10%	1				
18.001	15 Summer	30	10%	1				
18.002	15 Winter	30	10%	1	30/15 Winter			
18.003	15 Winter	30	10%	1	30/15 Summer			
12.008	15 Winter	30	10%	1	30/15 Summer			
12.009	30 Winter	30	10%	1	30/15 Summer			
12.010	30 Winter	30	10%	1	30/15 Summer			
12.011	30 Winter	30	10%	1	30/15 Summer			
12.012	30 Winter	30	10%	1	30/15 Summer			
19.000	15 Summer	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (1/s)	Pipe Flow (1/s)	Status
	13.009	11.754	0.299	0.000	0.87	0.0	118.1	SURCH'ED
	12.002	11.688	0.353	0.000	1.26	0.0	166.8	SURCH'ED
	12.003	11.313	0.298	0.000	1.44	0.0	154.2	SURCH'ED
	12.004	11.173	0.228	0.000	0.95	0.0	154.5	SURCH'ED
	12.005	10.932	0.267	0.000	1.10	0.0	173.0	SURCH'ED
	15.000	12.362	-0.043	0.000	0.89	0.0	33.8	O K
	15.001	12.218	0.053	0.000	0.88	0.0	34.7	SURCH'ED
	16.000	12.781	0.006	0.000	0.95	0.0	55.0	SURCH'ED
	15.002	12.116	0.036	0.000	0.83	0.0	92.5	SURCH'ED
	15.003	11.957	0.107	0.000	1.40	0.0	98.9	SURCH'ED
	15.004	11.808	0.038	0.000	1.04	0.0	123.7	SURCH'ED
	15.005	11.137	-0.138	0.000	0.72	0.0	143.3	O K
	15.006	10.856	-0.069	0.000	0.75	0.0	142.9	O K
	12.006	10.743	0.203	0.000	0.75	0.0	273.8	SURCH'ED
	17.000	10.450	0.355	0.000	0.15	0.0	9.7	SURCH'ED
	12.007	10.448	0.468	0.000	1.22	0.0	273.9	SURCH'ED
	18.000	11.291	-0.054	0.000	0.91	0.0	40.1	O K
	18.001	10.946	-0.114	0.000	0.68	0.0	90.9	O K
	18.002	10.460	0.015	0.000	0.59	0.0	103.0	SURCH'ED
	18.003	10.419	0.174	0.000	0.93	0.0	144.3	SURCH'ED
	12.008	10.228	0.408	0.000	1.04	0.0	356.4	SURCH'ED
	12.009	9.681	0.371	0.000	0.94	0.0	360.1	SURCH'ED
	12.010	9.374	0.409	0.000	1.32	0.0	365.6	SURCH'ED
	12.011	9.146	0.311	0.000	1.49	0.0	369.6	SURCH'ED
	12.012	8.913	0.158	0.000	1.49	0.0	370.3	SURCH'ED
	19.000	8.937	-0.423	0.000	0.01	0.0	5.1	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
12.013	30 Winter	30	10%	1	30/30 Summer			
12.014	30 Winter	30	10%	1				
12.015	30 Winter	30	10%	1	30/30 Winter			
12.016	30 Winter	30	10%	1	30/30 Summer			
12.017	30 Winter	30	10%	1	30/15 Summer			
1.023	30 Winter	30	10%	1	30/15 Summer			
20.000	15 Summer	30	10%	1				
20.001	15 Winter	30	10%	1				
20.002	15 Winter	30	10%	1	30/15 Summer			
20.003	15 Winter	30	10%	1	30/15 Summer			
20.004	15 Winter	30	10%	1	30/15 Winter			
20.005	15 Winter	30	10%	1	30/15 Summer			
21.000	15 Winter	30	10%	1	30/15 Summer			
20.006	15 Winter	30	10%	1	30/15 Summer			
1.024	30 Winter	30	10%	1	30/15 Summer			
22.000	15 Winter	30	10%	1	30/15 Summer			
1.025	30 Winter	30	10%	1	30/15 Summer			
23.000	15 Summer	30	10%	1				
1.026	30 Winter	30	10%	1	30/15 Summer			
1.027	30 Winter	30	10%	1	30/15 Summer			
1.028	30 Winter	30	10%	1	30/30 Winter			
1.029	30 Winter	30	10%	1				
1.030	30 Winter	30	10%	1				
24.000	15 Summer	30	10%	1				
24.001	15 Summer	30	10%	1				
25.000	15 Winter	30	10%	1	30/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	12.013	8.680	0.015	0.000	1.10	0.0	376.4	SURCH'ED
	12.014	8.325	-0.140	0.000	0.79	0.0	377.5	0 K
	12.015	8.084	0.009	0.000	0.95	0.0	379.4	SURCH'ED
	12.016	7.839	0.034	0.000	0.93	0.0	380.9	SURCH'ED
	12.017	7.556	0.081	0.000	1.33	0.0	381.5	SURCH'ED
	1.023	6.765	0.725	0.000	1.56	0.0	1076.9	SURCH'ED
	20.000	9.236	-0.129	0.000	0.38	0.0	20.9	0 K
	20.001	8.942	-0.023	0.000	0.62	0.0	32.3	0 K
	20.002	8.867	0.152	0.000	0.82	0.0	56.5	SURCH'ED
	20.003	8.263	0.438	0.000	1.54	0.0	74.2	SURCH'ED
	20.004	7.511	0.001	0.000	0.84	0.0	84.6	SURCH'ED
	20.005	7.297	0.097	0.000	1.38	0.0	84.6	SURCH'ED
	21.000	7.930	0.285	0.000	1.20	0.0	49.0	SURCH'ED
	20.006	7.184	0.024	0.000	1.07	0.0	133.8	SURCH'ED
	1.024	6.537	0.547	0.000	1.70	0.0	1133.5	SURCH'ED
	22.000	6.963	0.028	0.000	1.02	0.0	45.7	SURCH'ED
	1.025	6.284	0.344	0.000	1.90	0.0	1148.6	SURCH'ED
	23.000	6.534	-0.201	0.000	0.03	0.0	1.9	0 K
	1.026	6.024	0.124	0.000	2.37	0.0	1151.1	SURCH'ED
	1.027	5.962	0.072	0.000	1.82	0.0	1150.5	SURCH'ED
	1.028	5.855	0.005	0.000	1.74	0.0	1150.8	SURCH'ED
	1.029	4.954	-0.336	0.000	0.80	0.0	1153.3	0 K
	1.030	3.941	-0.399	0.000	0.56	0.0	1168.2	0 K
	24.000	7.087	-0.148	0.000	0.25	0.0	18.8	0 K
	24.001	6.698	-0.117	0.000	0.47	0.0	35.4	0 K
	25.000	6.442	0.117	0.000	0.21	0.0	7.9	SURCH'ED

Summary Wizard of "CRITICAL" (Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
24.002	15 Winter	30	10%	1	30/15 Summer			
26.000	15 Summer	30	10%	1				
26.001	15 Winter	30	10%	1	30/15 Summer			
26.002	15 Winter	30	10%	1	30/15 Summer			
24.003	15 Winter	30	10%	1	30/15 Summer			
27.000	15 Summer	30	10%	1				
27.001	15 Summer	30	10%	1				
27.002	15 Summer	30	10%	1				
27.003	15 Summer	30	10%	1				
24.004	15 Winter	30	10%	1	30/15 Summer			
24.005	15 Winter	30	10%	1				
28.000	15 Summer	30	10%	1				
28.001	15 Summer	30	10%	1				
28.002	15 Summer	30	10%	1				
24.006	30 Winter	30	10%	1				
24.007	30 Winter	30	10%	1				
24.008	30 Winter	30	10%	1				
24.009	30 Winter	30	10%	1				
24.010	30 Winter	30	10%	1				
24.011	30 Winter	30	10%	1				
24.012	30 Winter	30	10%	1				
1.031	30 Winter	30	10%	1	30/30 Winter			
29.000	15 Winter	30	10%	1	30/15 Summer			
29.001	15 Winter	30	10%	1	30/15 Summer			
30.000	15 Summer	30	10%	1				
30.001	15 Summer	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	24.002	6.432	0.207	0.000	0.85	0.0	54.7	SURCH'ED
	26.000	6.830	-0.115	0.000	0.48	0.0	36.3	O K
	26.001	6.677	0.332	0.000	0.74	0.0	56.2	SURCH'ED
	26.002	6.450	0.665	0.000	1.11	0.0	69.8	SURCH'ED
	24.003	5.821	0.541	0.000	1.18	0.0	140.4	SURCH'ED
	27.000	6.797	-0.118	0.000	0.45	0.0	21.2	O K
	27.001	6.377	-0.088	0.000	0.66	0.0	31.1	O K
	27.002	6.186	-0.099	0.000	0.58	0.0	44.6	O K
	27.003	5.571	-0.064	0.000	0.82	0.0	64.6	O K
	24.004	4.568	0.173	0.000	1.86	0.0	199.1	SURCH'ED
	24.005	4.245	-0.080	0.000	0.98	0.0	199.5	O K
	28.000	5.570	-0.145	0.000	0.28	0.0	18.8	O K
	28.001	5.176	-0.099	0.000	0.60	0.0	46.6	O K
	28.002	4.142	-0.093	0.000	0.64	0.0	48.1	O K
	24.006	3.875	-0.085	0.000	0.72	0.0	214.0	O K
	24.007	3.866	-0.084	0.000	0.53	0.0	226.4	O K
	24.008	3.841	-0.009	0.000	1.17	0.0	216.2	O K
	24.009	3.824	-0.006	0.000	1.01	0.0	214.4	O K
	24.010	3.809	-0.001	0.000	0.96	0.0	211.7	O K
	24.011	3.795	-0.005	0.000	1.04	0.0	212.0	O K
	24.012	3.778	-0.002	0.000	0.84	0.0	209.4	O K
	1.031	3.756	0.006	0.000	1.36	0.0	1310.3	SURCH'ED
	29.000	9.627	0.152	0.000	0.83	0.0	96.6	SURCH'ED
	29.001	9.497	0.322	0.000	1.99	0.0	91.3	SURCH'ED
	30.000	10.347	-0.278	0.000	0.15	0.0	20.7	O K
	30.001	10.250	-0.245	0.000	0.26	0.0	35.8	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
30.002	15 Summer	30	10%	1				
29.002	15 Winter	30	10%	1	30/15 Summer			
29.003	15 Winter	30	10%	1	30/15 Summer			
29.004	30 Winter	30	10%	1	30/15 Summer			
29.005	30 Winter	30	10%	1	30/15 Summer			
29.006	30 Winter	30	10%	1	30/15 Summer			
29.007	30 Winter	30	10%	1	30/15 Summer			
29.008	30 Winter	30	10%	1	30/30 Summer			
29.009	30 Winter	30	10%	1	30/30 Summer			
29.010	30 Winter	30	10%	1	30/15 Summer			
29.011	30 Winter	30	10%	1	30/15 Summer			
29.012	30 Winter	30	10%	1	30/30 Summer			
29.013	30 Winter	30	10%	1	30/30 Summer			
29.014	30 Winter	30	10%	1	30/15 Summer			
31.000	15 Summer	30	10%	1				
31.001	15 Winter	30	10%	1				
31.002	15 Winter	30	10%	1	30/15 Winter			
32.000	15 Summer	30	10%	1				
32.001	15 Winter	30	10%	1	30/15 Summer			
32.002	15 Winter	30	10%	1	30/15 Summer			
31.003	15 Winter	30	10%	1	30/15 Summer			
31.004	15 Winter	30	10%	1	30/15 Summer			
31.005	15 Winter	30	10%	1	30/15 Summer			
33.000	15 Winter	30	10%	1	30/15 Summer			
31.006	30 Winter	30	10%	1				
31.007	30 Winter	30	10%	1	30/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.002	10.138	-0.227	0.000	0.32	0.0	45.3	O K
	29.002	9.427	0.282	0.000	1.79	0.0	133.5	SURCH'ED
	29.003	9.319	0.204	0.000	1.58	0.0	138.4	SURCH'ED
	29.004	9.244	0.179	0.000	1.32	0.0	129.8	SURCH'ED
	29.005	9.185	0.175	0.000	1.02	0.0	135.7	SURCH'ED
	29.006	9.147	0.187	0.000	1.06	0.0	141.5	SURCH'ED
	29.007	9.105	0.195	0.000	1.15	0.0	140.6	SURCH'ED
	29.008	9.077	0.197	0.000	1.10	0.0	140.9	SURCH'ED
	29.009	9.041	0.201	0.000	0.93	0.0	142.8	SURCH'ED
	29.010	8.969	0.239	0.000	1.07	0.0	144.1	SURCH'ED
	29.011	8.909	0.239	0.000	1.02	0.0	146.5	SURCH'ED
	29.012	8.850	0.240	0.000	1.41	0.0	144.9	SURCH'ED
	29.013	8.805	0.225	0.000	0.74	0.0	158.7	SURCH'ED
	29.014	8.592	0.402	0.000	0.86	0.0	188.6	SURCH'ED
	31.000	10.791	-0.369	0.000	0.07	0.0	9.0	O K
	31.001	10.743	-0.347	0.000	0.06	0.0	18.5	O K
	31.002	10.734	0.024	0.000	0.10	0.0	24.9	SURCH'ED
	32.000	10.902	-0.113	0.000	0.49	0.0	26.7	O K
	32.001	10.818	0.153	0.000	0.69	0.0	36.3	SURCH'ED
	32.002	10.766	0.331	0.000	0.55	0.0	27.3	SURCH'ED
	31.003	10.729	0.424	0.000	1.28	0.0	62.2	SURCH'ED
	31.004	10.579	0.549	0.000	1.20	0.0	133.1	SURCH'ED
	31.005	9.175	0.095	0.000	1.18	0.0	135.9	SURCH'ED
	33.000	9.409	0.084	0.000	1.07	0.0	48.9	SURCH'ED
	31.006	8.934	-0.011	0.000	0.80	0.0	191.2	O K
	31.007	8.642	0.467	0.000	1.04	0.0	187.4	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
29.015	30 Winter	30	10%	1	30/15 Summer			
34.000	15 Summer	30	10%	1				
34.001	15 Summer	30	10%	1				
35.000	15 Winter	30	10%	1	30/15 Winter			
35.001	15 Winter	30	10%	1	30/15 Summer			
35.002	15 Winter	30	10%	1	30/15 Summer			
35.003	15 Winter	30	10%	1	30/15 Summer			
35.004	15 Winter	30	10%	1	30/15 Summer			
35.005	15 Winter	30	10%	1				
35.006	15 Winter	30	10%	1				
35.007	15 Winter	30	10%	1				
35.008	15 Winter	30	10%	1				
35.009	15 Winter	30	10%	1				
35.010	15 Winter	30	10%	1	30/15 Summer			
35.011	15 Winter	30	10%	1	30/15 Summer			
34.002	15 Winter	30	10%	1	30/15 Summer			
34.003	15 Winter	30	10%	1	30/15 Summer			
36.000	15 Winter	30	10%	1				
36.001	15 Winter	30	10%	1				
36.002	15 Winter	30	10%	1	30/15 Summer			
36.003	15 Winter	30	10%	1	30/15 Summer			
36.004	15 Winter	30	10%	1	30/15 Summer			
36.005	15 Winter	30	10%	1				
36.006	15 Winter	30	10%	1	30/15 Summer			
36.007	15 Winter	30	10%	1	30/15 Summer			
34.004	15 Winter	30	10%	1	30/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m ³)	Flow/Capacity	Overflow (1/s)	Pipe Flow (1/s)	Status
	29.015	8.339	0.484	0.000	0.79	0.0	341.8	SURCH'ED
	34.000	10.838	-0.152	0.000	0.48	0.0	46.8	O K
	34.001	10.449	-0.101	0.000	0.73	0.0	87.4	O K
	35.000	13.228	0.033	0.000	0.21	0.0	7.9	SURCH'ED
	35.001	13.214	0.189	0.000	0.91	0.0	35.0	SURCH'ED
	35.002	12.968	0.313	0.000	1.00	0.0	37.2	SURCH'ED
	35.003	12.797	0.322	0.000	1.31	0.0	50.2	SURCH'ED
	35.004	12.259	0.084	0.000	1.43	0.0	51.1	SURCH'ED
	35.005	12.059	-0.031	0.000	1.00	0.0	56.5	O K
	35.006	11.925	-0.105	0.000	0.72	0.0	76.3	O K
	35.007	11.428	-0.072	0.000	0.92	0.0	94.0	O K
	35.008	11.088	-0.082	0.000	0.87	0.0	110.1	O K
	35.009	10.479	-0.206	0.000	0.41	0.0	114.4	O K
	35.010	10.249	0.149	0.000	0.62	0.0	105.6	SURCH'ED
	35.011	10.227	0.187	0.000	0.52	0.0	122.1	SURCH'ED
	34.002	10.178	0.318	0.000	1.12	0.0	188.6	SURCH'ED
	34.003	10.080	0.370	0.000	1.12	0.0	224.3	SURCH'ED
	36.000	11.106	-0.119	0.000	0.33	0.0	12.7	O K
	36.001	11.082	-0.043	0.000	0.68	0.0	25.4	O K
	36.002	11.030	0.025	0.000	0.93	0.0	36.8	SURCH'ED
	36.003	10.897	0.052	0.000	1.33	0.0	37.8	SURCH'ED
	36.004	10.828	0.013	0.000	1.02	0.0	48.6	SURCH'ED
	36.005	10.403	-0.102	0.000	0.83	0.0	159.6	O K
	36.006	9.904	0.299	0.000	0.78	0.0	133.5	SURCH'ED
	36.007	9.820	0.405	0.000	1.02	0.0	126.6	SURCH'ED
	34.004	9.733	0.343	0.000	1.07	0.0	360.2	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
34.005	30 Winter	30	10%	1	30/15 Summer			
34.006	30 Winter	30	10%	1	30/15 Summer			
34.007	30 Winter	30	10%	1	30/15 Summer			
29.016	30 Winter	30	10%	1	30/15 Summer			
29.017	30 Winter	30	10%	1	30/15 Summer			
37.000	15 Winter	30	10%	1	30/15 Summer			
29.018	30 Winter	30	10%	1	30/15 Summer			
29.019	30 Winter	30	10%	1	30/15 Summer			
29.020	30 Winter	30	10%	1	30/15 Summer			
29.021	30 Winter	30	10%	1				
38.000	15 Winter	30	10%	1	30/15 Summer			
38.001	30 Winter	30	10%	1	30/15 Summer			
29.022	30 Winter	30	10%	1	30/15 Summer			
29.023	30 Winter	30	10%	1				
39.000	15 Winter	30	10%	1	30/15 Summer			
39.001	15 Winter	30	10%	1	30/15 Summer			
39.002	15 Winter	30	10%	1	30/15 Summer			
39.003	15 Winter	30	10%	1	30/15 Summer			
39.004	15 Winter	30	10%	1	30/15 Summer			
39.005	15 Winter	30	10%	1	30/15 Summer			
39.006	15 Winter	30	10%	1	30/15 Summer			
39.007	15 Winter	30	10%	1	30/15 Summer			
39.008	15 Winter	30	10%	1	30/15 Winter			
39.009	30 Winter	30	10%	1	30/15 Summer			
39.010	30 Winter	30	10%	1	30/15 Summer			
39.011	30 Winter	30	10%	1	30/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	34.005	8.954	0.349	0.000	1.05	0.0	331.2	SURCH'ED
	34.006	8.776	0.341	0.000	1.06	0.0	334.3	SURCH'ED
	34.007	8.595	0.405	0.000	1.22	0.0	334.8	SURCH'ED
	29.016	8.194	0.569	0.000	1.22	0.0	676.5	SURCH'ED
	29.017	7.908	0.473	0.000	1.46	0.0	678.1	SURCH'ED
	37.000	8.510	0.575	0.000	1.31	0.0	58.8	SURCH'ED
	29.018	7.622	0.377	0.000	1.33	0.0	713.0	SURCH'ED
	29.019	7.306	0.241	0.000	1.11	0.0	719.9	SURCH'ED
	29.020	6.983	0.178	0.000	1.55	0.0	722.4	SURCH'ED
	29.021	6.634	-0.051	0.000	0.78	0.0	732.7	0 K
	38.000	6.520	0.310	0.000	1.26	0.0	81.5	SURCH'ED
	38.001	6.191	0.271	0.000	1.18	0.0	64.9	SURCH'ED
	29.022	6.143	0.268	0.000	1.68	0.0	783.1	SURCH'ED
	29.023	5.685	-0.110	0.000	0.99	0.0	802.9	0 K
	39.000	8.585	0.210	0.000	0.22	0.0	8.3	SURCH'ED
	39.001	8.574	0.299	0.000	0.41	0.0	14.7	SURCH'ED
	39.002	8.553	0.358	0.000	0.59	0.0	21.8	SURCH'ED
	39.003	8.513	0.428	0.000	0.78	0.0	28.6	SURCH'ED
	39.004	8.471	0.466	0.000	1.35	0.0	52.3	SURCH'ED
	39.005	8.170	0.325	0.000	1.55	0.0	53.4	SURCH'ED
	39.006	8.030	0.245	0.000	1.42	0.0	54.9	SURCH'ED
	39.007	7.828	0.143	0.000	1.49	0.0	56.2	SURCH'ED
	39.008	7.593	0.028	0.000	0.84	0.0	63.1	SURCH'ED
	39.009	7.292	0.307	0.000	0.84	0.0	62.0	SURCH'ED
	39.010	7.062	0.492	0.000	0.88	0.0	58.6	SURCH'ED
	39.011	7.021	0.446	0.000	0.61	0.0	65.1	SURCH'ED


J. B. Barry And Partners Ltd		Page 12
Tramway House 32 Dartry Road Dublin 6 Ireland		Portmarnock Sth Wetland 30YR + 10% (opt2) Free Discharge(300mm)
Date 29th Nov 2017 File Y17205 - Option 2 - 30YR FD -SWS Free Discharge ...		Designed By SW Checked By
Micro Drainage		Simulation W.11.2



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
40.000	15 Winter	30	10%	1	30/15 Summer			
40.001	15 Winter	30	10%	1				
40.002	15 Winter	30	10%	1				
40.003	15 Winter	30	10%	1				
40.004	15 Winter	30	10%	1	30/15 Winter			
39.012	30 Winter	30	10%	1	30/15 Summer			
39.013	30 Winter	30	10%	1	30/15 Summer			
39.014	30 Winter	30	10%	1	30/15 Summer			
39.015	30 Winter	30	10%	1	30/15 Summer			
39.016	30 Winter	30	10%	1	30/15 Summer			
41.000	15 Winter	30	10%	1	30/15 Summer			
41.001	15 Winter	30	10%	1	30/15 Summer			
41.002	15 Winter	30	10%	1	30/15 Summer			
41.003	15 Winter	30	10%	1	30/15 Summer			
41.004	30 Winter	30	10%	1	30/15 Summer			
41.005	30 Winter	30	10%	1	30/15 Summer			
39.017	30 Winter	30	10%	1	30/15 Summer			
39.018	30 Winter	30	10%	1	30/15 Summer			
39.019	30 Winter	30	10%	1	30/15 Summer			
39.020	30 Winter	30	10%	1	30/15 Summer			
39.021	30 Winter	30	10%	1	30/15 Summer			
39.022	30 Winter	30	10%	1	30/15 Summer			
42.000	15 Winter	30	10%	1	30/15 Summer			
43.000	15 Winter	30	10%	1	30/15 Summer			
43.001	15 Winter	30	10%	1	30/15 Summer			
42.001	15 Winter	30	10%	1	30/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	8.700	0.265	0.000	1.19	0.0	52.5	SURCH'ED
	40.001	7.816	-0.064	0.000	0.97	0.0	59.9	O K
	40.002	7.707	-0.073	0.000	0.90	0.0	94.6	O K
	40.003	7.266	-0.059	0.000	0.76	0.0	103.0	O K
	40.004	7.221	0.016	0.000	0.81	0.0	159.9	SURCH'ED
	39.012	6.997	0.572	0.000	0.87	0.0	170.6	SURCH'ED
	39.013	6.864	0.689	0.000	1.47	0.0	172.8	SURCH'ED
	39.014	6.724	0.639	0.000	1.39	0.0	171.6	SURCH'ED
	39.015	6.581	0.591	0.000	0.80	0.0	175.9	SURCH'ED
	39.016	6.499	0.679	0.000	1.00	0.0	169.2	SURCH'ED
	41.000	8.027	0.087	0.000	1.02	0.0	66.9	SURCH'ED
	41.001	7.681	0.071	0.000	0.84	0.0	70.2	SURCH'ED
	41.002	7.550	0.150	0.000	0.81	0.0	94.3	SURCH'ED
	41.003	7.194	0.424	0.000	0.99	0.0	94.9	SURCH'ED
	41.004	7.068	0.468	0.000	1.21	0.0	126.9	SURCH'ED
	41.005	6.615	0.490	0.000	0.82	0.0	130.5	SURCH'ED
	39.017	6.450	0.700	0.000	1.12	0.0	290.3	SURCH'ED
	39.018	6.235	0.695	0.000	1.36	0.0	287.4	SURCH'ED
	39.019	6.017	0.617	0.000	1.01	0.0	287.6	SURCH'ED
	39.020	5.780	0.650	0.000	0.85	0.0	274.5	SURCH'ED
	39.021	5.554	0.679	0.000	1.12	0.0	279.0	SURCH'ED
	39.022	5.432	0.637	0.000	0.96	0.0	294.0	SURCH'ED
	42.000	6.775	0.120	0.000	1.09	0.0	44.7	SURCH'ED
	43.000	7.566	0.521	0.000	1.21	0.0	60.7	SURCH'ED
	43.001	6.664	0.229	0.000	1.42	0.0	67.2	SURCH'ED
	42.001	6.341	0.061	0.000	1.02	0.0	117.2	SURCH'ED

J. B. Barry And Partners Ltd		Page 13
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 30YR FD -SWS Free Discharge ...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
42.002	15 Winter	30	10%	1	30/15 Summer			
39.023	30 Winter	30	10%	1	30/15 Summer			
39.024	30 Winter	30	10%	1	30/15 Summer			
39.025	30 Winter	30	10%	1	30/15 Summer			
39.026	30 Winter	30	10%	1	30/15 Summer			
39.027	30 Winter	30	10%	1	30/15 Summer			
39.028	30 Winter	30	10%	1	30/15 Summer			
29.024	30 Winter	30	10%	1	30/15 Summer			
29.025	30 Winter	30	10%	1	30/15 Summer			
29.026	30 Winter	30	10%	1	30/15 Summer			
29.027	30 Winter	30	10%	1	30/15 Summer			
29.028	30 Winter	30	10%	1	30/15 Summer			
1.032	30 Winter	30	10%	1				
1.033	30 Winter	30	10%	1				
1.034	480 Winter	30	10%	1	30/15 Summer			
1.035	480 Winter	30	10%	1	30/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	42.002	6.145	0.075	0.000	1.05	0.0	140.3	SURCH'ED
	39.023	5.310	0.755	0.000	1.03	0.0	382.0	SURCH'ED
	39.024	5.259	0.764	0.000	1.40	0.0	387.1	SURCH'ED
	39.025	5.207	0.752	0.000	1.08	0.0	390.8	SURCH'ED
	39.026	5.149	0.754	0.000	1.36	0.0	390.0	SURCH'ED
	39.027	5.098	0.743	0.000	1.90	0.0	387.1	SURCH'ED
	39.028	5.057	0.722	0.000	1.11	0.0	380.1	SURCH'ED
	29.024	5.002	0.712	0.000	1.21	0.0	1160.8	SURCH'ED
	29.025	4.737	0.587	0.000	1.22	0.0	1163.6	SURCH'ED
	29.026	4.471	0.421	0.000	1.22	0.0	1166.0	SURCH'ED
	29.027	4.204	0.284	0.000	1.22	0.0	1169.0	SURCH'ED
	29.028	3.937	0.197	0.000	1.87	0.0	1168.8	SURCH'ED
	1.032	3.641	-0.069	0.000	2.18	0.0	2458.7	O K
	1.033	3.563	-0.127	0.000	1.64	0.0	2456.7	O K
	1.034	3.041	0.941	0.000	2.12	0.0	169.5	SURCH'ED
	1.035	2.143	0.837	0.000	3.01	0.0	169.5	SURCH'ED

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
30YR + 10% (opt2)
3.7mOD Surcharged(300mm)



Date 29th Nov 2017
File Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...

Designed By SW
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Micro Drainage Simulation W.11.2

Global Variables

Region	FSR - Scotland & Ireland
Return Period (yrs)	30
M5-60 (mm)	15.800
Ratio R	0.300
Volumetric Runoff Coef	0.750
Profile Type	Summer
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	15
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole Headloss Coefficient	0.500
MADD Factor * 10m ³ /ha Storage	2.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	10
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	0
Number of On-Line Controls	0

Starting Storm file name

O:\Y17 Projects\Y17205 - Portmanock South Residential Project\Micro D\Fox Lands Added(B).sws

Surcharged Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
1.035	P1	1.800	0.900	1200	0

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
-120	3.700	2.500	-94	3.700	2.500	-68	3.700	2.500	-42	3.700	2.500	-16	3.700	2.500
-119	3.700	2.500	-93	3.700	2.500	-67	3.700	2.500	-41	3.700	2.500	-15	3.700	2.500
-118	3.700	2.500	-92	3.700	2.500	-66	3.700	2.500	-40	3.700	2.500	-14	3.700	2.500
-117	3.700	2.500	-91	3.700	2.500	-65	3.700	2.500	-39	3.700	2.500	-13	3.700	2.500
-116	3.700	2.500	-90	3.700	2.500	-64	3.700	2.500	-38	3.700	2.500	-12	3.700	2.500
-115	3.700	2.500	-89	3.700	2.500	-63	3.700	2.500	-37	3.700	2.500	-11	3.700	2.500
-114	3.700	2.500	-88	3.700	2.500	-62	3.700	2.500	-36	3.700	2.500	-10	3.700	2.500
-113	3.700	2.500	-87	3.700	2.500	-61	3.700	2.500	-35	3.700	2.500	-9	3.700	2.500
-112	3.700	2.500	-86	3.700	2.500	-60	3.700	2.500	-34	3.700	2.500	-8	3.700	2.500
-111	3.700	2.500	-85	3.700	2.500	-59	3.700	2.500	-33	3.700	2.500	-7	3.700	2.500
-110	3.700	2.500	-84	3.700	2.500	-58	3.700	2.500	-32	3.700	2.500	-6	3.700	2.500
-109	3.700	2.500	-83	3.700	2.500	-57	3.700	2.500	-31	3.700	2.500	-5	3.700	2.500
-108	3.700	2.500	-82	3.700	2.500	-56	3.700	2.500	-30	3.700	2.500	-4	3.700	2.500
-107	3.700	2.500	-81	3.700	2.500	-55	3.700	2.500	-29	3.700	2.500	-3	3.700	2.500
-106	3.700	2.500	-80	3.700	2.500	-54	3.700	2.500	-28	3.700	2.500	-2	3.700	2.500
-105	3.700	2.500	-79	3.700	2.500	-53	3.700	2.500	-27	3.700	2.500	-1	3.700	2.500
-104	3.700	2.500	-78	3.700	2.500	-52	3.700	2.500	-26	3.700	2.500	0	3.700	2.500
-103	3.700	2.500	-77	3.700	2.500	-51	3.700	2.500	-25	3.700	2.500	1	3.700	2.500
-102	3.700	2.500	-76	3.700	2.500	-50	3.700	2.500	-24	3.700	2.500	2	3.700	2.500
-101	3.700	2.500	-75	3.700	2.500	-49	3.700	2.500	-23	3.700	2.500	3	3.700	2.500
-100	3.700	2.500	-74	3.700	2.500	-48	3.700	2.500	-22	3.700	2.500	4	3.700	2.500
-99	3.700	2.500	-73	3.700	2.500	-47	3.700	2.500	-21	3.700	2.500	5	3.700	2.500
-98	3.700	2.500	-72	3.700	2.500	-46	3.700	2.500	-20	3.700	2.500	6	3.700	2.500
-97	3.700	2.500	-71	3.700	2.500	-45	3.700	2.500	-19	3.700	2.500	7	3.700	2.500
-96	3.700	2.500	-70	3.700	2.500	-44	3.700	2.500	-18	3.700	2.500	8	3.700	2.500
-95	3.700	2.500	-69	3.700	2.500	-43	3.700	2.500	-17	3.700	2.500	9	3.700	2.500

Tramway House
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Portmarnock Sth Wetland
30YR + 10% (opt2)
3.7mOD Surcharged(300mm)

Date 29th Nov 2017
File Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...

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Micro Drainage Simulation W.11.2

Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
10	3.700	2.500	71	3.700	2.500	132	3.700	2.500	193	3.700	2.500	254	3.700	2.500
11	3.700	2.500	72	3.700	2.500	133	3.700	2.500	194	3.700	2.500	255	3.700	2.500
12	3.700	2.500	73	3.700	2.500	134	3.700	2.500	195	3.700	2.500	256	3.700	2.500
13	3.700	2.500	74	3.700	2.500	135	3.700	2.500	196	3.700	2.500	257	3.700	2.500
14	3.700	2.500	75	3.700	2.500	136	3.700	2.500	197	3.700	2.500	258	3.700	2.500
15	3.700	2.500	76	3.700	2.500	137	3.700	2.500	198	3.700	2.500	259	3.700	2.500
16	3.700	2.500	77	3.700	2.500	138	3.700	2.500	199	3.700	2.500	260	3.700	2.500
17	3.700	2.500	78	3.700	2.500	139	3.700	2.500	200	3.700	2.500	261	3.700	2.500
18	3.700	2.500	79	3.700	2.500	140	3.700	2.500	201	3.700	2.500	262	3.700	2.500
19	3.700	2.500	80	3.700	2.500	141	3.700	2.500	202	3.700	2.500	263	3.700	2.500
20	3.700	2.500	81	3.700	2.500	142	3.700	2.500	203	3.700	2.500	264	3.700	2.500
21	3.700	2.500	82	3.700	2.500	143	3.700	2.500	204	3.700	2.500	265	3.700	2.500
22	3.700	2.500	83	3.700	2.500	144	3.700	2.500	205	3.700	2.500	266	3.700	2.500
23	3.700	2.500	84	3.700	2.500	145	3.700	2.500	206	3.700	2.500	267	3.700	2.500
24	3.700	2.500	85	3.700	2.500	146	3.700	2.500	207	3.700	2.500	268	3.700	2.500
25	3.700	2.500	86	3.700	2.500	147	3.700	2.500	208	3.700	2.500	269	3.700	2.500
26	3.700	2.500	87	3.700	2.500	148	3.700	2.500	209	3.700	2.500	270	3.700	2.500
27	3.700	2.500	88	3.700	2.500	149	3.700	2.500	210	3.700	2.500	271	3.700	2.500
28	3.700	2.500	89	3.700	2.500	150	3.700	2.500	211	3.700	2.500	272	3.700	2.500
29	3.700	2.500	90	3.700	2.500	151	3.700	2.500	212	3.700	2.500	273	3.700	2.500
30	3.700	2.500	91	3.700	2.500	152	3.700	2.500	213	3.700	2.500	274	3.700	2.500
31	3.700	2.500	92	3.700	2.500	153	3.700	2.500	214	3.700	2.500	275	3.700	2.500
32	3.700	2.500	93	3.700	2.500	154	3.700	2.500	215	3.700	2.500	276	3.700	2.500
33	3.700	2.500	94	3.700	2.500	155	3.700	2.500	216	3.700	2.500	277	3.700	2.500
34	3.700	2.500	95	3.700	2.500	156	3.700	2.500	217	3.700	2.500	278	3.700	2.500
35	3.700	2.500	96	3.700	2.500	157	3.700	2.500	218	3.700	2.500	279	3.700	2.500
36	3.700	2.500	97	3.700	2.500	158	3.700	2.500	219	3.700	2.500	280	3.700	2.500
37	3.700	2.500	98	3.700	2.500	159	3.700	2.500	220	3.700	2.500	281	3.700	2.500
38	3.700	2.500	99	3.700	2.500	160	3.700	2.500	221	3.700	2.500	282	3.700	2.500
39	3.700	2.500	100	3.700	2.500	161	3.700	2.500	222	3.700	2.500	283	3.700	2.500
40	3.700	2.500	101	3.700	2.500	162	3.700	2.500	223	3.700	2.500	284	3.700	2.500
41	3.700	2.500	102	3.700	2.500	163	3.700	2.500	224	3.700	2.500	285	3.700	2.500
42	3.700	2.500	103	3.700	2.500	164	3.700	2.500	225	3.700	2.500	286	3.700	2.500
43	3.700	2.500	104	3.700	2.500	165	3.700	2.500	226	3.700	2.500	287	3.700	2.500
44	3.700	2.500	105	3.700	2.500	166	3.700	2.500	227	3.700	2.500	288	3.700	2.500
45	3.700	2.500	106	3.700	2.500	167	3.700	2.500	228	3.700	2.500	289	3.700	2.500
46	3.700	2.500	107	3.700	2.500	168	3.700	2.500	229	3.700	2.500	290	3.700	2.500
47	3.700	2.500	108	3.700	2.500	169	3.700	2.500	230	3.700	2.500	291	3.700	2.500
48	3.700	2.500	109	3.700	2.500	170	3.700	2.500	231	3.700	2.500	292	3.700	2.500
49	3.700	2.500	110	3.700	2.500	171	3.700	2.500	232	3.700	2.500	293	3.700	2.500
50	3.700	2.500	111	3.700	2.500	172	3.700	2.500	233	3.700	2.500	294	3.700	2.500
51	3.700	2.500	112	3.700	2.500	173	3.700	2.500	234	3.700	2.500	295	3.700	2.500
52	3.700	2.500	113	3.700	2.500	174	3.700	2.500	235	3.700	2.500	296	3.700	2.500
53	3.700	2.500	114	3.700	2.500	175	3.700	2.500	236	3.700	2.500	297	3.700	2.500
54	3.700	2.500	115	3.700	2.500	176	3.700	2.500	237	3.700	2.500	298	3.700	2.500
55	3.700	2.500	116	3.700	2.500	177	3.700	2.500	238	3.700	2.500	299	3.700	2.500
56	3.700	2.500	117	3.700	2.500	178	3.700	2.500	239	3.700	2.500	300	3.700	2.500
57	3.700	2.500	118	3.700	2.500	179	3.700	2.500	240	3.700	2.500	301	3.700	2.500
58	3.700	2.500	119	3.700	2.500	180	3.700	2.500	241	3.700	2.500	302	3.700	2.500
59	3.700	2.500	120	3.700	2.500	181	3.700	2.500	242	3.700	2.500	303	3.700	2.500
60	3.700	2.500	121	3.700	2.500	182	3.700	2.500	243	3.700	2.500	304	3.700	2.500
61	3.700	2.500	122	3.700	2.500	183	3.700	2.500	244	3.700	2.500	305	3.700	2.500
62	3.700	2.500	123	3.700	2.500	184	3.700	2.500	245	3.700	2.500	306	3.700	2.500
63	3.700	2.500	124	3.700	2.500	185	3.700	2.500	246	3.700	2.500	307	3.700	2.500
64	3.700	2.500	125	3.700	2.500	186	3.700	2.500	247	3.700	2.500	308	3.700	2.500
65	3.700	2.500	126	3.700	2.500	187	3.700	2.500	248	3.700	2.500	309	3.700	2.500
66	3.700	2.500	127	3.700	2.500	188	3.700	2.500	249	3.700	2.500	310	3.700	2.500
67	3.700	2.500	128	3.700	2.500	189	3.700	2.500	250	3.700	2.500	311	3.700	2.500
68	3.700	2.500	129	3.700	2.500	190	3.700	2.500	251	3.700	2.500	312	3.700	2.500
69	3.700	2.500	130	3.700	2.500	191	3.700	2.500	252	3.700	2.500	313	3.700	2.500
70	3.700	2.500	131	3.700	2.500	192	3.700	2.500	253	3.700	2.500	314	3.700	2.500

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Dublin 6 Ireland

Portmarnock Sth Wetland
30YR + 10% (opt2)
3.7mOD Surcharged(300mm)

Date 29th Nov 2017
File_Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m)...

Designed By SW
Checked By

Micro Drainage

Simulation W.11.2



Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
315	3.700	2.500	376	3.700	2.500	437	3.700	2.500	498	3.700	2.500	559	3.700	2.500
316	3.700	2.500	377	3.700	2.500	438	3.700	2.500	499	3.700	2.500	560	3.700	2.500
317	3.700	2.500	378	3.700	2.500	439	3.700	2.500	500	3.700	2.500	561	3.700	2.500
318	3.700	2.500	379	3.700	2.500	440	3.700	2.500	501	3.700	2.500	562	3.700	2.500
319	3.700	2.500	380	3.700	2.500	441	3.700	2.500	502	3.700	2.500	563	3.700	2.500
320	3.700	2.500	381	3.700	2.500	442	3.700	2.500	503	3.700	2.500	564	3.700	2.500
321	3.700	2.500	382	3.700	2.500	443	3.700	2.500	504	3.700	2.500	565	3.700	2.500
322	3.700	2.500	383	3.700	2.500	444	3.700	2.500	505	3.700	2.500	566	3.700	2.500
323	3.700	2.500	384	3.700	2.500	445	3.700	2.500	506	3.700	2.500	567	3.700	2.500
324	3.700	2.500	385	3.700	2.500	446	3.700	2.500	507	3.700	2.500	568	3.700	2.500
325	3.700	2.500	386	3.700	2.500	447	3.700	2.500	508	3.700	2.500	569	3.700	2.500
326	3.700	2.500	387	3.700	2.500	448	3.700	2.500	509	3.700	2.500	570	3.700	2.500
327	3.700	2.500	388	3.700	2.500	449	3.700	2.500	510	3.700	2.500	571	3.700	2.500
328	3.700	2.500	389	3.700	2.500	450	3.700	2.500	511	3.700	2.500	572	3.700	2.500
329	3.700	2.500	390	3.700	2.500	451	3.700	2.500	512	3.700	2.500	573	3.700	2.500
330	3.700	2.500	391	3.700	2.500	452	3.700	2.500	513	3.700	2.500	574	3.700	2.500
331	3.700	2.500	392	3.700	2.500	453	3.700	2.500	514	3.700	2.500	575	3.700	2.500
332	3.700	2.500	393	3.700	2.500	454	3.700	2.500	515	3.700	2.500	576	3.700	2.500
333	3.700	2.500	394	3.700	2.500	455	3.700	2.500	516	3.700	2.500	577	3.700	2.500
334	3.700	2.500	395	3.700	2.500	456	3.700	2.500	517	3.700	2.500	578	3.700	2.500
335	3.700	2.500	396	3.700	2.500	457	3.700	2.500	518	3.700	2.500	579	3.700	2.500
336	3.700	2.500	397	3.700	2.500	458	3.700	2.500	519	3.700	2.500	580	3.700	2.500
337	3.700	2.500	398	3.700	2.500	459	3.700	2.500	520	3.700	2.500	581	3.700	2.500
338	3.700	2.500	399	3.700	2.500	460	3.700	2.500	521	3.700	2.500	582	3.700	2.500
339	3.700	2.500	400	3.700	2.500	461	3.700	2.500	522	3.700	2.500	583	3.700	2.500
340	3.700	2.500	401	3.700	2.500	462	3.700	2.500	523	3.700	2.500	584	3.700	2.500
341	3.700	2.500	402	3.700	2.500	463	3.700	2.500	524	3.700	2.500	585	3.700	2.500
342	3.700	2.500	403	3.700	2.500	464	3.700	2.500	525	3.700	2.500	586	3.700	2.500
343	3.700	2.500	404	3.700	2.500	465	3.700	2.500	526	3.700	2.500	587	3.700	2.500
344	3.700	2.500	405	3.700	2.500	466	3.700	2.500	527	3.700	2.500	588	3.700	2.500
345	3.700	2.500	406	3.700	2.500	467	3.700	2.500	528	3.700	2.500	589	3.700	2.500
346	3.700	2.500	407	3.700	2.500	468	3.700	2.500	529	3.700	2.500	590	3.700	2.500
347	3.700	2.500	408	3.700	2.500	469	3.700	2.500	530	3.700	2.500	591	3.700	2.500
348	3.700	2.500	409	3.700	2.500	470	3.700	2.500	531	3.700	2.500	592	3.700	2.500
349	3.700	2.500	410	3.700	2.500	471	3.700	2.500	532	3.700	2.500	593	3.700	2.500
350	3.700	2.500	411	3.700	2.500	472	3.700	2.500	533	3.700	2.500	594	3.700	2.500
351	3.700	2.500	412	3.700	2.500	473	3.700	2.500	534	3.700	2.500	595	3.700	2.500
352	3.700	2.500	413	3.700	2.500	474	3.700	2.500	535	3.700	2.500	596	3.700	2.500
353	3.700	2.500	414	3.700	2.500	475	3.700	2.500	536	3.700	2.500	597	3.700	2.500
354	3.700	2.500	415	3.700	2.500	476	3.700	2.500	537	3.700	2.500	598	3.700	2.500
355	3.700	2.500	416	3.700	2.500	477	3.700	2.500	538	3.700	2.500	599	3.700	2.500
356	3.700	2.500	417	3.700	2.500	478	3.700	2.500	539	3.700	2.500	600	3.700	2.500
357	3.700	2.500	418	3.700	2.500	479	3.700	2.500	540	3.700	2.500	601	3.700	2.500
358	3.700	2.500	419	3.700	2.500	480	3.700	2.500	541	3.700	2.500	602	3.700	2.500
359	3.700	2.500	420	3.700	2.500	481	3.700	2.500	542	3.700	2.500	603	3.700	2.500
360	3.700	2.500	421	3.700	2.500	482	3.700	2.500	543	3.700	2.500	604	3.700	2.500
361	3.700	2.500	422	3.700	2.500	483	3.700	2.500	544	3.700	2.500	605	3.700	2.500
362	3.700	2.500	423	3.700	2.500	484	3.700	2.500	545	3.700	2.500	606	3.700	2.500
363	3.700	2.500	424	3.700	2.500	485	3.700	2.500	546	3.700	2.500	607	3.700	2.500
364	3.700	2.500	425	3.700	2.500	486	3.700	2.500	547	3.700	2.500	608	3.700	2.500
365	3.700	2.500	426	3.700	2.500	487	3.700	2.500	548	3.700	2.500	609	3.700	2.500
366	3.700	2.500	427	3.700	2.500	488	3.700	2.500	549	3.700	2.500	610	3.700	2.500
367	3.700	2.500	428	3.700	2.500	489	3.700	2.500	550	3.700	2.500	611	3.700	2.500
368	3.700	2.500	429	3.700	2.500	490	3.700	2.500	551	3.700	2.500	612	3.700	2.500
369	3.700	2.500	430	3.700	2.500	491	3.700	2.500	552	3.700	2.500	613	3.700	2.500
370	3.700	2.500	431	3.700	2.500	492	3.700	2.500	553	3.700	2.500	614	3.700	2.500
371	3.700	2.500	432	3.700	2.500	493	3.700	2.500	554	3.700	2.500	615	3.700	2.500
372	3.700	2.500	433	3.700	2.500	494	3.700	2.500	555	3.700	2.500	616	3.700	2.500
373	3.700	2.500	434	3.700	2.500	495	3.700	2.500	556	3.700	2.500	617	3.700	2.500
374	3.700	2.500	435	3.700	2.500	496	3.700	2.500	557	3.700	2.500	618	3.700	2.500
375	3.700	2.500	436	3.700	2.500	497	3.700	2.500	558	3.700	2.500	619	3.700	2.500

Tramway House
 32 Dartry Road
 Dublin 6 Ireland
 Date 29th Nov 2017
 File_Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...

Portmarnock Sth Wetland
 30YR + 10% (opt2)
 3.7mOD Surcharged(300mm)
 Designed By SW
 Checked By



Micro Drainage Simulation W.11.2

Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
620	3.700	2.500	681	3.700	2.500	742	3.700	2.500	803	3.700	2.500	864	3.700	2.500
621	3.700	2.500	682	3.700	2.500	743	3.700	2.500	804	3.700	2.500	865	3.700	2.500
622	3.700	2.500	683	3.700	2.500	744	3.700	2.500	805	3.700	2.500	866	3.700	2.500
623	3.700	2.500	684	3.700	2.500	745	3.700	2.500	806	3.700	2.500	867	3.700	2.500
624	3.700	2.500	685	3.700	2.500	746	3.700	2.500	807	3.700	2.500	868	3.700	2.500
625	3.700	2.500	686	3.700	2.500	747	3.700	2.500	808	3.700	2.500	869	3.700	2.500
626	3.700	2.500	687	3.700	2.500	748	3.700	2.500	809	3.700	2.500	870	3.700	2.500
627	3.700	2.500	688	3.700	2.500	749	3.700	2.500	810	3.700	2.500	871	3.700	2.500
628	3.700	2.500	689	3.700	2.500	750	3.700	2.500	811	3.700	2.500	872	3.700	2.500
629	3.700	2.500	690	3.700	2.500	751	3.700	2.500	812	3.700	2.500	873	3.700	2.500
630	3.700	2.500	691	3.700	2.500	752	3.700	2.500	813	3.700	2.500	874	3.700	2.500
631	3.700	2.500	692	3.700	2.500	753	3.700	2.500	814	3.700	2.500	875	3.700	2.500
632	3.700	2.500	693	3.700	2.500	754	3.700	2.500	815	3.700	2.500	876	3.700	2.500
633	3.700	2.500	694	3.700	2.500	755	3.700	2.500	816	3.700	2.500	877	3.700	2.500
634	3.700	2.500	695	3.700	2.500	756	3.700	2.500	817	3.700	2.500	878	3.700	2.500
635	3.700	2.500	696	3.700	2.500	757	3.700	2.500	818	3.700	2.500	879	3.700	2.500
636	3.700	2.500	697	3.700	2.500	758	3.700	2.500	819	3.700	2.500	880	3.700	2.500
637	3.700	2.500	698	3.700	2.500	759	3.700	2.500	820	3.700	2.500	881	3.700	2.500
638	3.700	2.500	699	3.700	2.500	760	3.700	2.500	821	3.700	2.500	882	3.700	2.500
639	3.700	2.500	700	3.700	2.500	761	3.700	2.500	822	3.700	2.500	883	3.700	2.500
640	3.700	2.500	701	3.700	2.500	762	3.700	2.500	823	3.700	2.500	884	3.700	2.500
641	3.700	2.500	702	3.700	2.500	763	3.700	2.500	824	3.700	2.500	885	3.700	2.500
642	3.700	2.500	703	3.700	2.500	764	3.700	2.500	825	3.700	2.500	886	3.700	2.500
643	3.700	2.500	704	3.700	2.500	765	3.700	2.500	826	3.700	2.500	887	3.700	2.500
644	3.700	2.500	705	3.700	2.500	766	3.700	2.500	827	3.700	2.500	888	3.700	2.500
645	3.700	2.500	706	3.700	2.500	767	3.700	2.500	828	3.700	2.500	889	3.700	2.500
646	3.700	2.500	707	3.700	2.500	768	3.700	2.500	829	3.700	2.500	890	3.700	2.500
647	3.700	2.500	708	3.700	2.500	769	3.700	2.500	830	3.700	2.500	891	3.700	2.500
648	3.700	2.500	709	3.700	2.500	770	3.700	2.500	831	3.700	2.500	892	3.700	2.500
649	3.700	2.500	710	3.700	2.500	771	3.700	2.500	832	3.700	2.500	893	3.700	2.500
650	3.700	2.500	711	3.700	2.500	772	3.700	2.500	833	3.700	2.500	894	3.700	2.500
651	3.700	2.500	712	3.700	2.500	773	3.700	2.500	834	3.700	2.500	895	3.700	2.500
652	3.700	2.500	713	3.700	2.500	774	3.700	2.500	835	3.700	2.500	896	3.700	2.500
653	3.700	2.500	714	3.700	2.500	775	3.700	2.500	836	3.700	2.500	897	3.700	2.500
654	3.700	2.500	715	3.700	2.500	776	3.700	2.500	837	3.700	2.500	898	3.700	2.500
655	3.700	2.500	716	3.700	2.500	777	3.700	2.500	838	3.700	2.500	899	3.700	2.500
656	3.700	2.500	717	3.700	2.500	778	3.700	2.500	839	3.700	2.500	900	3.700	2.500
657	3.700	2.500	718	3.700	2.500	779	3.700	2.500	840	3.700	2.500	901	3.700	2.500
658	3.700	2.500	719	3.700	2.500	780	3.700	2.500	841	3.700	2.500	902	3.700	2.500
659	3.700	2.500	720	3.700	2.500	781	3.700	2.500	842	3.700	2.500	903	3.700	2.500
660	3.700	2.500	721	3.700	2.500	782	3.700	2.500	843	3.700	2.500	904	3.700	2.500
661	3.700	2.500	722	3.700	2.500	783	3.700	2.500	844	3.700	2.500	905	3.700	2.500
662	3.700	2.500	723	3.700	2.500	784	3.700	2.500	845	3.700	2.500	906	3.700	2.500
663	3.700	2.500	724	3.700	2.500	785	3.700	2.500	846	3.700	2.500	907	3.700	2.500
664	3.700	2.500	725	3.700	2.500	786	3.700	2.500	847	3.700	2.500	908	3.700	2.500
665	3.700	2.500	726	3.700	2.500	787	3.700	2.500	848	3.700	2.500	909	3.700	2.500
666	3.700	2.500	727	3.700	2.500	788	3.700	2.500	849	3.700	2.500	910	3.700	2.500
667	3.700	2.500	728	3.700	2.500	789	3.700	2.500	850	3.700	2.500	911	3.700	2.500
668	3.700	2.500	729	3.700	2.500	790	3.700	2.500	851	3.700	2.500	912	3.700	2.500
669	3.700	2.500	730	3.700	2.500	791	3.700	2.500	852	3.700	2.500	913	3.700	2.500
670	3.700	2.500	731	3.700	2.500	792	3.700	2.500	853	3.700	2.500	914	3.700	2.500
671	3.700	2.500	732	3.700	2.500	793	3.700	2.500	854	3.700	2.500	915	3.700	2.500
672	3.700	2.500	733	3.700	2.500	794	3.700	2.500	855	3.700	2.500	916	3.700	2.500
673	3.700	2.500	734	3.700	2.500	795	3.700	2.500	856	3.700	2.500	917	3.700	2.500
674	3.700	2.500	735	3.700	2.500	796	3.700	2.500	857	3.700	2.500	918	3.700	2.500
675	3.700	2.500	736	3.700	2.500	797	3.700	2.500	858	3.700	2.500	919	3.700	2.500
676	3.700	2.500	737	3.700	2.500	798	3.700	2.500	859	3.700	2.500	920	3.700	2.500
677	3.700	2.500	738	3.700	2.500	799	3.700	2.500	860	3.700	2.500	921	3.700	2.500
678	3.700	2.500	739	3.700	2.500	800	3.700	2.500	861	3.700	2.500	922	3.700	2.500
679	3.700	2.500	740	3.700	2.500	801	3.700	2.500	862	3.700	2.500	923	3.700	2.500
680	3.700	2.500	741	3.700	2.500	802	3.700	2.500	863	3.700	2.500	924	3.700	2.500

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
30YR + 10% (opt2)
3.7mOD Surcharged(300mm)



Date 29th Nov 2017
File Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m)...

Designed By SW
Checked By

Micro Drainage Simulation W.11.2


Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
925	3.700	2.500	986	3.700	2.500	1047	3.700	2.500	1108	3.700	2.500	1169	3.700	2.500
926	3.700	2.500	987	3.700	2.500	1048	3.700	2.500	1109	3.700	2.500	1170	3.700	2.500
927	3.700	2.500	988	3.700	2.500	1049	3.700	2.500	1110	3.700	2.500	1171	3.700	2.500
928	3.700	2.500	989	3.700	2.500	1050	3.700	2.500	1111	3.700	2.500	1172	3.700	2.500
929	3.700	2.500	990	3.700	2.500	1051	3.700	2.500	1112	3.700	2.500	1173	3.700	2.500
930	3.700	2.500	991	3.700	2.500	1052	3.700	2.500	1113	3.700	2.500	1174	3.700	2.500
931	3.700	2.500	992	3.700	2.500	1053	3.700	2.500	1114	3.700	2.500	1175	3.700	2.500
932	3.700	2.500	993	3.700	2.500	1054	3.700	2.500	1115	3.700	2.500	1176	3.700	2.500
933	3.700	2.500	994	3.700	2.500	1055	3.700	2.500	1116	3.700	2.500	1177	3.700	2.500
934	3.700	2.500	995	3.700	2.500	1056	3.700	2.500	1117	3.700	2.500	1178	3.700	2.500
935	3.700	2.500	996	3.700	2.500	1057	3.700	2.500	1118	3.700	2.500	1179	3.700	2.500
936	3.700	2.500	997	3.700	2.500	1058	3.700	2.500	1119	3.700	2.500	1180	3.700	2.500
937	3.700	2.500	998	3.700	2.500	1059	3.700	2.500	1120	3.700	2.500	1181	3.700	2.500
938	3.700	2.500	999	3.700	2.500	1060	3.700	2.500	1121	3.700	2.500	1182	3.700	2.500
939	3.700	2.500	1000	3.700	2.500	1061	3.700	2.500	1122	3.700	2.500	1183	3.700	2.500
940	3.700	2.500	1001	3.700	2.500	1062	3.700	2.500	1123	3.700	2.500	1184	3.700	2.500
941	3.700	2.500	1002	3.700	2.500	1063	3.700	2.500	1124	3.700	2.500	1185	3.700	2.500
942	3.700	2.500	1003	3.700	2.500	1064	3.700	2.500	1125	3.700	2.500	1186	3.700	2.500
943	3.700	2.500	1004	3.700	2.500	1065	3.700	2.500	1126	3.700	2.500	1187	3.700	2.500
944	3.700	2.500	1005	3.700	2.500	1066	3.700	2.500	1127	3.700	2.500	1188	3.700	2.500
945	3.700	2.500	1006	3.700	2.500	1067	3.700	2.500	1128	3.700	2.500	1189	3.700	2.500
946	3.700	2.500	1007	3.700	2.500	1068	3.700	2.500	1129	3.700	2.500	1190	3.700	2.500
947	3.700	2.500	1008	3.700	2.500	1069	3.700	2.500	1130	3.700	2.500	1191	3.700	2.500
948	3.700	2.500	1009	3.700	2.500	1070	3.700	2.500	1131	3.700	2.500	1192	3.700	2.500
949	3.700	2.500	1010	3.700	2.500	1071	3.700	2.500	1132	3.700	2.500	1193	3.700	2.500
950	3.700	2.500	1011	3.700	2.500	1072	3.700	2.500	1133	3.700	2.500	1194	3.700	2.500
951	3.700	2.500	1012	3.700	2.500	1073	3.700	2.500	1134	3.700	2.500	1195	3.700	2.500
952	3.700	2.500	1013	3.700	2.500	1074	3.700	2.500	1135	3.700	2.500	1196	3.700	2.500
953	3.700	2.500	1014	3.700	2.500	1075	3.700	2.500	1136	3.700	2.500	1197	3.700	2.500
954	3.700	2.500	1015	3.700	2.500	1076	3.700	2.500	1137	3.700	2.500	1198	3.700	2.500
955	3.700	2.500	1016	3.700	2.500	1077	3.700	2.500	1138	3.700	2.500	1199	3.700	2.500
956	3.700	2.500	1017	3.700	2.500	1078	3.700	2.500	1139	3.700	2.500	1200	3.700	2.500
957	3.700	2.500	1018	3.700	2.500	1079	3.700	2.500	1140	3.700	2.500	1201	3.700	2.500
958	3.700	2.500	1019	3.700	2.500	1080	3.700	2.500	1141	3.700	2.500	1202	3.700	2.500
959	3.700	2.500	1020	3.700	2.500	1081	3.700	2.500	1142	3.700	2.500	1203	3.700	2.500
960	3.700	2.500	1021	3.700	2.500	1082	3.700	2.500	1143	3.700	2.500	1204	3.700	2.500
961	3.700	2.500	1022	3.700	2.500	1083	3.700	2.500	1144	3.700	2.500	1205	3.700	2.500
962	3.700	2.500	1023	3.700	2.500	1084	3.700	2.500	1145	3.700	2.500	1206	3.700	2.500
963	3.700	2.500	1024	3.700	2.500	1085	3.700	2.500	1146	3.700	2.500	1207	3.700	2.500
964	3.700	2.500	1025	3.700	2.500	1086	3.700	2.500	1147	3.700	2.500	1208	3.700	2.500
965	3.700	2.500	1026	3.700	2.500	1087	3.700	2.500	1148	3.700	2.500	1209	3.700	2.500
966	3.700	2.500	1027	3.700	2.500	1088	3.700	2.500	1149	3.700	2.500	1210	3.700	2.500
967	3.700	2.500	1028	3.700	2.500	1089	3.700	2.500	1150	3.700	2.500	1211	3.700	2.500
968	3.700	2.500	1029	3.700	2.500	1090	3.700	2.500	1151	3.700	2.500	1212	3.700	2.500
969	3.700	2.500	1030	3.700	2.500	1091	3.700	2.500	1152	3.700	2.500	1213	3.700	2.500
970	3.700	2.500	1031	3.700	2.500	1092	3.700	2.500	1153	3.700	2.500	1214	3.700	2.500
971	3.700	2.500	1032	3.700	2.500	1093	3.700	2.500	1154	3.700	2.500	1215	3.700	2.500
972	3.700	2.500	1033	3.700	2.500	1094	3.700	2.500	1155	3.700	2.500	1216	3.700	2.500
973	3.700	2.500	1034	3.700	2.500	1095	3.700	2.500	1156	3.700	2.500	1217	3.700	2.500
974	3.700	2.500	1035	3.700	2.500	1096	3.700	2.500	1157	3.700	2.500	1218	3.700	2.500
975	3.700	2.500	1036	3.700	2.500	1097	3.700	2.500	1158	3.700	2.500	1219	3.700	2.500
976	3.700	2.500	1037	3.700	2.500	1098	3.700	2.500	1159	3.700	2.500	1220	3.700	2.500
977	3.700	2.500	1038	3.700	2.500	1099	3.700	2.500	1160	3.700	2.500	1221	3.700	2.500
978	3.700	2.500	1039	3.700	2.500	1100	3.700	2.500	1161	3.700	2.500	1222	3.700	2.500
979	3.700	2.500	1040	3.700	2.500	1101	3.700	2.500	1162	3.700	2.500	1223	3.700	2.500
980	3.700	2.500	1041	3.700	2.500	1102	3.700	2.500	1163	3.700	2.500	1224	3.700	2.500
981	3.700	2.500	1042	3.700	2.500	1103	3.700	2.500	1164	3.700	2.500	1225	3.700	2.500
982	3.700	2.500	1043	3.700	2.500	1104	3.700	2.500	1165	3.700	2.500	1226	3.700	2.500
983	3.700	2.500	1044	3.700	2.500	1105	3.700	2.500	1166	3.700	2.500	1227	3.700	2.500
984	3.700	2.500	1045	3.700	2.500	1106	3.700	2.500	1167	3.700	2.500	1228	3.700	2.500
985	3.700	2.500	1046	3.700	2.500	1107	3.700	2.500	1168	3.700	2.500	1229	3.700	2.500



Surcharged Outfalls


Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
1230	3.700	2.500	1273	3.700	2.500	1316	3.700	2.500	1359	3.700	2.500	1402	3.700	2.500
1231	3.700	2.500	1274	3.700	2.500	1317	3.700	2.500	1360	3.700	2.500	1403	3.700	2.500
1232	3.700	2.500	1275	3.700	2.500	1318	3.700	2.500	1361	3.700	2.500	1404	3.700	2.500
1233	3.700	2.500	1276	3.700	2.500	1319	3.700	2.500	1362	3.700	2.500	1405	3.700	2.500
1234	3.700	2.500	1277	3.700	2.500	1320	3.700	2.500	1363	3.700	2.500	1406	3.700	2.500
1235	3.700	2.500	1278	3.700	2.500	1321	3.700	2.500	1364	3.700	2.500	1407	3.700	2.500
1236	3.700	2.500	1279	3.700	2.500	1322	3.700	2.500	1365	3.700	2.500	1408	3.700	2.500
1237	3.700	2.500	1280	3.700	2.500	1323	3.700	2.500	1366	3.700	2.500	1409	3.700	2.500
1238	3.700	2.500	1281	3.700	2.500	1324	3.700	2.500	1367	3.700	2.500	1410	3.700	2.500
1239	3.700	2.500	1282	3.700	2.500	1325	3.700	2.500	1368	3.700	2.500	1411	3.700	2.500
1240	3.700	2.500	1283	3.700	2.500	1326	3.700	2.500	1369	3.700	2.500	1412	3.700	2.500
1241	3.700	2.500	1284	3.700	2.500	1327	3.700	2.500	1370	3.700	2.500	1413	3.700	2.500
1242	3.700	2.500	1285	3.700	2.500	1328	3.700	2.500	1371	3.700	2.500	1414	3.700	2.500
1243	3.700	2.500	1286	3.700	2.500	1329	3.700	2.500	1372	3.700	2.500	1415	3.700	2.500
1244	3.700	2.500	1287	3.700	2.500	1330	3.700	2.500	1373	3.700	2.500	1416	3.700	2.500
1245	3.700	2.500	1288	3.700	2.500	1331	3.700	2.500	1374	3.700	2.500	1417	3.700	2.500
1246	3.700	2.500	1289	3.700	2.500	1332	3.700	2.500	1375	3.700	2.500	1418	3.700	2.500
1247	3.700	2.500	1290	3.700	2.500	1333	3.700	2.500	1376	3.700	2.500	1419	3.700	2.500
1248	3.700	2.500	1291	3.700	2.500	1334	3.700	2.500	1377	3.700	2.500	1420	3.700	2.500
1249	3.700	2.500	1292	3.700	2.500	1335	3.700	2.500	1378	3.700	2.500	1421	3.700	2.500
1250	3.700	2.500	1293	3.700	2.500	1336	3.700	2.500	1379	3.700	2.500	1422	3.700	2.500
1251	3.700	2.500	1294	3.700	2.500	1337	3.700	2.500	1380	3.700	2.500	1423	3.700	2.500
1252	3.700	2.500	1295	3.700	2.500	1338	3.700	2.500	1381	3.700	2.500	1424	3.700	2.500
1253	3.700	2.500	1296	3.700	2.500	1339	3.700	2.500	1382	3.700	2.500	1425	3.700	2.500
1254	3.700	2.500	1297	3.700	2.500	1340	3.700	2.500	1383	3.700	2.500	1426	3.700	2.500
1255	3.700	2.500	1298	3.700	2.500	1341	3.700	2.500	1384	3.700	2.500	1427	3.700	2.500
1256	3.700	2.500	1299	3.700	2.500	1342	3.700	2.500	1385	3.700	2.500	1428	3.700	2.500
1257	3.700	2.500	1300	3.700	2.500	1343	3.700	2.500	1386	3.700	2.500	1429	3.700	2.500
1258	3.700	2.500	1301	3.700	2.500	1344	3.700	2.500	1387	3.700	2.500	1430	3.700	2.500
1259	3.700	2.500	1302	3.700	2.500	1345	3.700	2.500	1388	3.700	2.500	1431	3.700	2.500
1260	3.700	2.500	1303	3.700	2.500	1346	3.700	2.500	1389	3.700	2.500	1432	3.700	2.500
1261	3.700	2.500	1304	3.700	2.500	1347	3.700	2.500	1390	3.700	2.500	1433	3.700	2.500
1262	3.700	2.500	1305	3.700	2.500	1348	3.700	2.500	1391	3.700	2.500	1434	3.700	2.500
1263	3.700	2.500	1306	3.700	2.500	1349	3.700	2.500	1392	3.700	2.500	1435	3.700	2.500
1264	3.700	2.500	1307	3.700	2.500	1350	3.700	2.500	1393	3.700	2.500	1436	3.700	2.500
1265	3.700	2.500	1308	3.700	2.500	1351	3.700	2.500	1394	3.700	2.500	1437	3.700	2.500
1266	3.700	2.500	1309	3.700	2.500	1352	3.700	2.500	1395	3.700	2.500	1438	3.700	2.500
1267	3.700	2.500	1310	3.700	2.500	1353	3.700	2.500	1396	3.700	2.500	1439	3.700	2.500
1268	3.700	2.500	1311	3.700	2.500	1354	3.700	2.500	1397	3.700	2.500	1440	3.700	2.500
1269	3.700	2.500	1312	3.700	2.500	1355	3.700	2.500	1398	3.700	2.500			
1270	3.700	2.500	1313	3.700	2.500	1356	3.700	2.500	1399	3.700	2.500			
1271	3.700	2.500	1314	3.700	2.500	1357	3.700	2.500	1400	3.700	2.500			
1272	3.700	2.500	1315	3.700	2.500	1358	3.700	2.500	1401	3.700	2.500			

J. B. Barry And Partners Ltd		Page 7
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017 File Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...	Designed By SW Checked By	
Micro Drainage		Simulation W.11.2

Storage Pond at pipe 1.034 USMH Wetland

Storage Pond Invert Level (m) 1.800

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.0	3719.0	0.8	5079.0	1.6	6439.0	2.4	7799.0	3.2	7830.0	4.0	7830.0	4.8	7830.0
0.2	4059.0	1.0	5419.0	1.8	6779.0	2.6	7830.0	3.4	7830.0	4.2	7830.0	5.0	7830.0
0.4	4399.0	1.2	5759.0	2.0	7119.0	2.8	7830.0	3.6	7830.0	4.4	7830.0		
0.6	4739.0	1.4	6099.0	2.2	7459.0	3.0	7830.0	3.8	7830.0	4.6	7830.0		

J. B. Barry And Partners Ltd		Page 8
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File_Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm) 300 Inertia Status OFF
DTS Status ON Analysis Time Step Fine
DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 30
Climate Change (%) 10

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
1.000	30 Winter	30	10%	1	30/30 Summer			
1.001	30 Winter	30	10%	1	30/15 Summer			
1.002	30 Winter	30	10%	1	30/15 Summer			
1.003	30 Winter	30	10%	1	30/15 Summer			
1.004	30 Winter	30	10%	1	30/15 Summer			
1.005	30 Winter	30	10%	1	30/15 Summer			
2.000	15 Summer	30	10%	1				
2.001	15 Summer	30	10%	1				
2.002	15 Summer	30	10%	1				
2.003	30 Winter	30	10%	1				
2.004	30 Winter	30	10%	1	30/15 Winter			
1.006	30 Winter	30	10%	1	30/15 Summer			
1.007	30 Winter	30	10%	1	30/15 Summer			
1.008	30 Winter	30	10%	1	30/15 Summer			
1.009	30 Winter	30	10%	1	30/15 Summer			
1.010	30 Winter	30	10%	1	30/15 Summer			
1.011	30 Winter	30	10%	1	30/15 Summer			
1.012	30 Winter	30	10%	1	30/15 Summer			
1.013	30 Winter	30	10%	1	30/15 Summer			
3.000	15 Summer	30	10%	1				
3.001	30 Winter	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.000	11.101	0.106	0.000	0.28	0.0	11.0	SURCH'ED
	1.001	11.089	0.334	0.000	0.53	0.0	21.8	SURCH'ED
	1.002	11.062	0.532	0.000	0.46	0.0	29.1	SURCH'ED
	1.003	11.041	0.641	0.000	0.59	0.0	36.1	SURCH'ED
	1.004	11.020	0.700	0.000	0.67	0.0	42.3	SURCH'ED
	1.005	10.986	0.804	0.000	0.83	0.0	49.5	SURCH'ED
	2.000	11.551	-0.144	0.000	0.28	0.0	14.9	O K
	2.001	11.283	-0.132	0.000	0.36	0.0	18.8	O K
	2.002	11.063	-0.122	0.000	0.43	0.0	21.2	O K
	2.003	11.007	-0.028	0.000	0.42	0.0	17.8	O K
	2.004	10.997	0.052	0.000	0.59	0.0	27.0	SURCH'ED
	1.006	10.967	0.838	0.000	1.11	0.0	73.1	SURCH'ED
	1.007	10.701	0.841	0.000	1.57	0.0	72.9	SURCH'ED
	1.008	10.628	0.798	0.000	1.44	0.0	88.5	SURCH'ED
	1.009	10.276	0.611	0.000	1.15	0.0	112.5	SURCH'ED
	1.010	10.069	0.564	0.000	1.43	0.0	118.2	SURCH'ED
	1.011	9.979	0.504	0.000	1.33	0.0	134.8	SURCH'ED
	1.012	9.697	0.382	0.000	1.47	0.0	136.0	SURCH'ED
	1.013	9.576	0.311	0.000	1.69	0.0	137.9	SURCH'ED
	3.000	9.573	-0.347	0.000	0.34	0.0	137.6	O K
	3.001	9.479	-0.071	0.000	0.30	0.0	109.4	O K

Tramway House
32 Darty Road
Dublin 6 Ireland

Portmarnock Sth Wetland
30YR + 10% (opt2)
3.7mOD Surcharged(300mm)

Date 29th Nov 2017
File_Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...

Designed By SW
Checked By
Simulation W.11.2

Micro Drainage



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
3.002	30 Winter	30	10%	1	30/30 Summer			
1.014	30 Winter	30	10%	1	30/15 Summer			
1.015	30 Winter	30	10%	1	30/15 Summer			
4.000	15 Winter	30	10%	1	30/15 Winter			
4.001	15 Winter	30	10%	1	30/15 Summer			
4.002	15 Winter	30	10%	1	30/15 Summer			
4.003	15 Winter	30	10%	1	30/15 Summer			
4.004	15 Winter	30	10%	1	30/15 Summer			
5.000	15 Winter	30	10%	1				
5.001	15 Winter	30	10%	1	30/15 Summer			
4.005	15 Winter	30	10%	1	30/15 Summer			
6.000	30 Winter	30	10%	1	30/30 Summer			
6.001	30 Winter	30	10%	1	30/15 Summer			
7.000	15 Winter	30	10%	1	30/15 Summer			
6.002	30 Winter	30	10%	1	30/15 Summer			
4.006	30 Winter	30	10%	1	30/15 Summer			
4.007	30 Winter	30	10%	1	30/15 Summer			
8.000	15 Summer	30	10%	1				
8.001	15 Winter	30	10%	1	30/15 Summer			
8.002	15 Winter	30	10%	1	30/15 Summer			
8.003	15 Winter	30	10%	1	30/15 Summer			
4.008	30 Winter	30	10%	1	30/15 Summer			
1.016	30 Winter	30	10%	1	30/15 Summer			
1.017	30 Winter	30	10%	1	30/15 Summer			
1.018	30 Winter	30	10%	1	30/15 Summer			
9.000	15 Summer	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	3.002	9.459	0.059	0.000	0.41	0.0	89.0	SURCH'ED
	1.014	9.452	0.212	0.000	1.19	0.0	235.4	SURCH'ED
	1.015	9.165	0.125	0.000	2.22	0.0	237.3	SURCH'ED
	4.000	11.080	0.005	0.000	0.86	0.0	35.0	SURCH'ED
	4.001	10.827	0.162	0.000	1.12	0.0	44.8	SURCH'ED
	4.002	10.538	0.126	0.000	0.94	0.0	49.3	SURCH'ED
	4.003	10.329	0.154	0.000	1.00	0.0	55.9	SURCH'ED
	4.004	9.778	0.161	0.000	1.33	0.0	67.5	SURCH'ED
	5.000	9.446	-0.039	0.000	0.42	0.0	13.7	O K
	5.001	9.423	0.113	0.000	0.80	0.0	48.7	SURCH'ED
	4.005	9.323	0.249	0.000	1.21	0.0	127.9	SURCH'ED
	6.000	7.910	0.350	0.000	0.03	0.0	5.8	SURCH'ED
	6.001	7.910	0.390	0.000	0.34	0.0	81.7	SURCH'ED
	7.000	8.578	0.043	0.000	1.04	0.0	55.8	SURCH'ED
	6.002	7.903	0.453	0.000	0.61	0.0	145.1	SURCH'ED
	4.006	7.890	0.500	0.000	1.19	0.0	276.9	SURCH'ED
	4.007	7.841	0.521	0.000	1.14	0.0	287.1	SURCH'ED
	8.000	10.639	-0.106	0.000	0.54	0.0	22.1	O K
	8.001	10.516	0.026	0.000	0.71	0.0	27.6	SURCH'ED
	8.002	10.468	0.093	0.000	1.00	0.0	47.6	SURCH'ED
	8.003	10.000	0.083	0.000	1.09	0.0	61.8	SURCH'ED
	4.008	7.780	0.540	0.000	1.46	0.0	346.0	SURCH'ED
	1.016	7.669	1.119	0.000	0.97	0.0	572.4	SURCH'ED
	1.017	7.619	1.129	0.000	2.11	0.0	566.3	SURCH'ED
	1.018	7.544	1.084	0.000	1.77	0.0	567.5	SURCH'ED
	9.000	9.085	-0.075	0.000	0.92	0.0	92.3	O K



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
1.019	30 Winter	30	10%	1	30/15 Summer			
1.020	30 Winter	30	10%	1	30/15 Summer			
10.000	15 Winter	30	10%	1				
11.000	15 Winter	30	10%	1				
10.001	15 Winter	30	10%	1	30/15 Summer			
10.002	15 Winter	30	10%	1	30/15 Summer			
10.003	15 Winter	30	10%	1	30/15 Summer			
10.004	15 Winter	30	10%	1	30/15 Summer			
10.005	15 Winter	30	10%	1	30/15 Summer			
10.006	15 Winter	30	10%	1				
10.007	15 Winter	30	10%	1				
10.008	30 Summer	30	10%	1	30/15 Summer			
1.021	30 Winter	30	10%	1	30/15 Summer			
1.022	30 Winter	30	10%	1	30/15 Summer			
12.000	15 Winter	30	10%	1	30/15 Winter			
12.001	15 Winter	30	10%	1	30/15 Summer			
13.000	15 Winter	30	10%	1				
13.001	15 Winter	30	10%	1	30/15 Summer			
13.002	15 Winter	30	10%	1	30/15 Summer			
13.003	15 Winter	30	10%	1	30/15 Summer			
13.004	15 Winter	30	10%	1	30/15 Summer			
13.005	15 Winter	30	10%	1	30/15 Summer			
13.006	15 Winter	30	10%	1				
14.000	15 Winter	30	10%	1	30/15 Summer			
13.007	15 Winter	30	10%	1				
13.008	15 Winter	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.019	7.450	1.030	0.000	2.35	0.0	604.0	SURCH'ED
	1.020	7.353	0.963	0.000	2.29	0.0	604.6	SURCH'ED
	10.000	8.136	-0.094	0.000	0.44	0.0	27.9	O K
	11.000	8.112	-0.028	0.000	0.15	0.0	9.2	O K
	10.001	8.105	0.055	0.000	0.74	0.0	39.5	SURCH'ED
	10.002	8.078	0.078	0.000	0.82	0.0	48.6	SURCH'ED
	10.003	8.036	0.106	0.000	1.00	0.0	57.9	SURCH'ED
	10.004	7.971	0.111	0.000	1.23	0.0	70.4	SURCH'ED
	10.005	7.866	0.076	0.000	0.99	0.0	84.4	SURCH'ED
	10.006	7.705	0.000	0.000	1.01	0.0	95.1	O K
	10.007	7.599	-0.036	0.000	0.87	0.0	90.4	O K
	10.008	7.448	0.003	0.000	1.31	0.0	88.0	SURCH'ED
	1.021	7.224	0.864	0.000	1.21	0.0	686.7	SURCH'ED
	1.022	7.030	0.780	0.000	1.11	0.0	695.8	SURCH'ED
	12.000	11.996	0.021	0.000	0.78	0.0	31.2	SURCH'ED
	12.001	11.894	0.209	0.000	0.94	0.0	38.3	SURCH'ED
	13.000	13.741	-0.014	0.000	0.35	0.0	12.3	O K
	13.001	13.724	0.059	0.000	0.60	0.0	21.7	SURCH'ED
	13.002	13.684	0.169	0.000	0.68	0.0	27.5	SURCH'ED
	13.003	13.577	0.312	0.000	1.39	0.0	49.4	SURCH'ED
	13.004	13.418	0.233	0.000	1.39	0.0	52.6	SURCH'ED
	13.005	13.228	0.143	0.000	1.39	0.0	53.8	SURCH'ED
	13.006	12.856	-0.069	0.000	0.81	0.0	56.2	O K
	14.000	12.813	0.138	0.000	1.08	0.0	56.6	SURCH'ED
	13.007	11.920	-0.055	0.000	1.00	0.0	123.6	O K
	13.008	11.832	-0.043	0.000	0.47	0.0	119.0	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
13.009	15 Winter	30	10%	1	30/15 Summer			
12.002	15 Winter	30	10%	1	30/15 Summer			
12.003	15 Winter	30	10%	1	30/15 Summer			
12.004	15 Winter	30	10%	1	30/15 Summer			
12.005	15 Winter	30	10%	1	30/15 Summer			
15.000	15 Winter	30	10%	1				
15.001	15 Winter	30	10%	1	30/15 Summer			
16.000	15 Winter	30	10%	1	30/15 Winter			
15.002	15 Winter	30	10%	1	30/15 Summer			
15.003	15 Winter	30	10%	1	30/15 Summer			
15.004	15 Winter	30	10%	1	30/15 Summer			
15.005	15 Winter	30	10%	1				
15.006	15 Winter	30	10%	1				
12.006	15 Winter	30	10%	1	30/15 Summer			
17.000	15 Winter	30	10%	1	30/15 Summer			
12.007	15 Winter	30	10%	1	30/15 Summer			
18.000	15 Summer	30	10%	1				
18.001	15 Summer	30	10%	1				
18.002	15 Winter	30	10%	1	30/15 Winter			
18.003	15 Winter	30	10%	1	30/15 Summer			
12.008	15 Winter	30	10%	1	30/15 Summer			
12.009	30 Winter	30	10%	1	30/15 Summer			
12.010	30 Winter	30	10%	1	30/15 Summer			
12.011	30 Winter	30	10%	1	30/15 Summer			
12.012	30 Winter	30	10%	1	30/15 Summer			
19.000	15 Summer	30	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	13.009	11.754	0.299	0.000	0.87	0.0	118.1	SURCH'ED
	12.002	11.688	0.353	0.000	1.26	0.0	166.8	SURCH'ED
	12.003	11.313	0.298	0.000	1.44	0.0	154.2	SURCH'ED
	12.004	11.173	0.228	0.000	0.95	0.0	154.5	SURCH'ED
	12.005	10.932	0.267	0.000	1.10	0.0	173.0	SURCH'ED
	15.000	12.362	-0.043	0.000	0.89	0.0	33.8	O K
	15.001	12.218	0.053	0.000	0.88	0.0	34.7	SURCH'ED
	16.000	12.781	0.006	0.000	0.95	0.0	55.0	SURCH'ED
	15.002	12.116	0.036	0.000	0.83	0.0	92.5	SURCH'ED
	15.003	11.957	0.107	0.000	1.40	0.0	98.9	SURCH'ED
	15.004	11.808	0.038	0.000	1.04	0.0	123.7	SURCH'ED
	15.005	11.137	-0.138	0.000	0.72	0.0	143.3	O K
	15.006	10.856	-0.069	0.000	0.75	0.0	142.9	O K
	12.006	10.743	0.203	0.000	0.75	0.0	273.8	SURCH'ED
	17.000	10.450	0.355	0.000	0.15	0.0	9.7	SURCH'ED
	12.007	10.448	0.468	0.000	1.22	0.0	273.9	SURCH'ED
	18.000	11.291	-0.054	0.000	0.91	0.0	40.1	O K
	18.001	10.946	-0.114	0.000	0.68	0.0	90.9	O K
	18.002	10.460	0.015	0.000	0.59	0.0	103.0	SURCH'ED
	18.003	10.419	0.174	0.000	0.93	0.0	144.3	SURCH'ED
	12.008	10.228	0.408	0.000	1.04	0.0	356.4	SURCH'ED
	12.009	9.681	0.371	0.000	0.94	0.0	360.1	SURCH'ED
	12.010	9.374	0.409	0.000	1.32	0.0	365.6	SURCH'ED
	12.011	9.146	0.311	0.000	1.49	0.0	369.6	SURCH'ED
	12.012	8.913	0.158	0.000	1.49	0.0	370.3	SURCH'ED
	19.000	8.937	-0.423	0.000	0.01	0.0	5.1	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms


PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
12.013	30 Winter	30	10%	1	30/30 Summer			
12.014	30 Winter	30	10%	1				
12.015	30 Winter	30	10%	1	30/30 Winter			
12.016	30 Winter	30	10%	1	30/30 Summer			
12.017	30 Winter	30	10%	1	30/15 Summer			
1.023	30 Winter	30	10%	1	30/15 Summer			
20.000	15 Summer	30	10%	1				
20.001	15 Winter	30	10%	1				
20.002	15 Winter	30	10%	1	30/15 Summer			
20.003	15 Winter	30	10%	1	30/15 Summer			
20.004	15 Winter	30	10%	1	30/15 Winter			
20.005	15 Winter	30	10%	1	30/15 Summer			
21.000	15 Winter	30	10%	1	30/15 Summer			
20.006	15 Winter	30	10%	1	30/15 Summer			
1.024	30 Winter	30	10%	1	30/15 Summer			
22.000	15 Winter	30	10%	1	30/15 Summer			
1.025	30 Winter	30	10%	1	30/15 Summer			
23.000	15 Summer	30	10%	1				
1.026	30 Winter	30	10%	1	30/15 Summer			
1.027	30 Winter	30	10%	1	30/15 Summer			
1.028	30 Winter	30	10%	1	30/30 Winter			
1.029	30 Winter	30	10%	1				
1.030	30 Winter	30	10%	1				
24.000	15 Summer	30	10%	1				
24.001	15 Summer	30	10%	1				
25.000	15 Winter	30	10%	1	30/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	12.013	8.680	0.015	0.000	1.10	0.0	376.4	SURCH'ED
	12.014	8.325	-0.140	0.000	0.79	0.0	377.5	O K
	12.015	8.084	0.009	0.000	0.95	0.0	379.4	SURCH'ED
	12.016	7.839	0.034	0.000	0.93	0.0	380.9	SURCH'ED
	12.017	7.556	0.081	0.000	1.33	0.0	381.5	SURCH'ED
	1.023	6.765	0.725	0.000	1.56	0.0	1076.9	SURCH'ED
	20.000	9.236	-0.129	0.000	0.38	0.0	20.9	O K
	20.001	8.942	-0.023	0.000	0.62	0.0	32.3	O K
	20.002	8.867	0.152	0.000	0.82	0.0	56.5	SURCH'ED
	20.003	8.263	0.438	0.000	1.54	0.0	74.2	SURCH'ED
	20.004	7.511	0.001	0.000	0.84	0.0	84.6	SURCH'ED
	20.005	7.297	0.097	0.000	1.38	0.0	84.6	SURCH'ED
	21.000	7.930	0.285	0.000	1.20	0.0	49.0	SURCH'ED
	20.006	7.184	0.024	0.000	1.07	0.0	133.8	SURCH'ED
	1.024	6.537	0.547	0.000	1.70	0.0	1133.5	SURCH'ED
	22.000	6.963	0.028	0.000	1.02	0.0	45.7	SURCH'ED
	1.025	6.284	0.344	0.000	1.90	0.0	1148.6	SURCH'ED
	23.000	6.534	-0.201	0.000	0.03	0.0	1.9	O K
	1.026	6.024	0.124	0.000	2.37	0.0	1151.1	SURCH'ED
	1.027	5.962	0.072	0.000	1.82	0.0	1150.5	SURCH'ED
	1.028	5.855	0.005	0.000	1.74	0.0	1150.8	SURCH'ED
	1.029	4.954	-0.336	0.000	0.80	0.0	1153.3	O K
	1.030	3.941	-0.399	0.000	0.56	0.0	1168.2	O K
	24.000	7.087	-0.148	0.000	0.25	0.0	18.8	O K
	24.001	6.698	-0.117	0.000	0.47	0.0	35.4	O K
	25.000	6.442	0.117	0.000	0.21	0.0	7.9	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
24.002	15 Winter	30	10%	1	30/15 Summer			
26.000	15 Summer	30	10%	1				
26.001	15 Winter	30	10%	1	30/15 Summer			
26.002	15 Winter	30	10%	1	30/15 Summer			
24.003	15 Winter	30	10%	1	30/15 Summer			
27.000	15 Summer	30	10%	1				
27.001	15 Summer	30	10%	1				
27.002	15 Summer	30	10%	1				
27.003	15 Summer	30	10%	1				
24.004	15 Winter	30	10%	1	30/15 Summer			
24.005	15 Winter	30	10%	1				
28.000	15 Summer	30	10%	1				
28.001	15 Summer	30	10%	1				
28.002	15 Summer	30	10%	1				
24.006	30 Winter	30	10%	1				
24.007	30 Winter	30	10%	1				
24.008	30 Winter	30	10%	1				
24.009	30 Winter	30	10%	1				
24.010	30 Winter	30	10%	1				
24.011	1440 Winter	30	10%	1	30/1440 Winter			
24.012	1440 Winter	30	10%	1	30/1440 Winter			
1.031	1440 Winter	30	10%	1	30/30 Winter			
29.000	15 Winter	30	10%	1	30/15 Summer			
29.001	15 Winter	30	10%	1	30/15 Summer			
30.000	15 Summer	30	10%	1				
30.001	15 Summer	30	10%	1				


Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	24.002	6.432	0.207	0.000	0.85	0.0	54.7	SURCH'ED
	26.000	6.830	-0.115	0.000	0.48	0.0	36.3	O K
	26.001	6.677	0.332	0.000	0.74	0.0	56.2	SURCH'ED
	26.002	6.450	0.665	0.000	1.11	0.0	69.8	SURCH'ED
	24.003	5.821	0.541	0.000	1.18	0.0	140.4	SURCH'ED
	27.000	6.797	-0.118	0.000	0.45	0.0	21.2	O K
	27.001	6.377	-0.088	0.000	0.66	0.0	31.1	O K
	27.002	6.186	-0.099	0.000	0.58	0.0	44.6	O K
	27.003	5.571	-0.064	0.000	0.82	0.0	64.6	O K
	24.004	4.568	0.173	0.000	1.86	0.0	199.1	SURCH'ED
	24.005	4.245	-0.080	0.000	0.98	0.0	199.5	O K
	28.000	5.570	-0.145	0.000	0.28	0.0	18.8	O K
	28.001	5.176	-0.099	0.000	0.60	0.0	46.6	O K
	28.002	4.142	-0.093	0.000	0.64	0.0	48.1	O K
	24.006	3.875	-0.085	0.000	0.72	0.0	214.0	O K
	24.007	3.866	-0.084	0.000	0.53	0.0	226.4	O K
	24.008	3.841	-0.009	0.000	1.17	0.0	216.2	O K
	24.009	3.824	-0.006	0.000	1.01	0.0	214.4	O K
	24.010	3.809	-0.001	0.000	0.96	0.0	211.7	O K
	24.011	3.806	0.006	0.000	0.11	0.0	21.4	SURCH'ED
	24.012	3.806	0.026	0.000	0.09	0.0	22.2	SURCH'ED
	1.031	3.806	0.056	0.000	0.20	0.0	188.2	SURCH'ED
	29.000	9.627	0.152	0.000	0.83	0.0	96.6	SURCH'ED
	29.001	9.497	0.322	0.000	1.99	0.0	91.3	SURCH'ED
	30.000	10.347	-0.278	0.000	0.15	0.0	20.7	O K
	30.001	10.250	-0.245	0.000	0.26	0.0	35.8	O K

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Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017 File Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...	Designed By SW Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
30.002	15 Summer	30	10%	1				
29.002	15 Winter	30	10%	1	30/15 Summer			
29.003	15 Winter	30	10%	1	30/15 Summer			
29.004	30 Winter	30	10%	1	30/15 Summer			
29.005	30 Winter	30	10%	1	30/15 Summer			
29.006	30 Winter	30	10%	1	30/15 Summer			
29.007	30 Winter	30	10%	1	30/15 Summer			
29.008	30 Winter	30	10%	1	30/30 Summer			
29.009	30 Winter	30	10%	1	30/30 Summer			
29.010	30 Winter	30	10%	1	30/15 Summer			
29.011	30 Winter	30	10%	1	30/15 Summer			
29.012	30 Winter	30	10%	1	30/30 Summer			
29.013	30 Winter	30	10%	1	30/30 Summer			
29.014	30 Winter	30	10%	1	30/15 Summer			
31.000	15 Summer	30	10%	1				
31.001	15 Winter	30	10%	1				
31.002	15 Winter	30	10%	1	30/15 Winter			
32.000	15 Summer	30	10%	1				
32.001	15 Winter	30	10%	1	30/15 Summer			
32.002	15 Winter	30	10%	1	30/15 Summer			
31.003	15 Winter	30	10%	1	30/15 Summer			
31.004	15 Winter	30	10%	1	30/15 Summer			
31.005	15 Winter	30	10%	1	30/15 Summer			
33.000	15 Winter	30	10%	1	30/15 Summer			
31.006	30 Winter	30	10%	1				
31.007	30 Winter	30	10%	1	30/15 Summer			


Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.002	10.138	-0.227	0.000	0.32	0.0	45.3	0 K
	29.002	9.427	0.282	0.000	1.79	0.0	133.5	SURCH'ED
	29.003	9.319	0.204	0.000	1.58	0.0	138.4	SURCH'ED
	29.004	9.244	0.179	0.000	1.32	0.0	129.8	SURCH'ED
	29.005	9.185	0.175	0.000	1.02	0.0	135.7	SURCH'ED
	29.006	9.147	0.187	0.000	1.06	0.0	141.5	SURCH'ED
	29.007	9.105	0.195	0.000	1.15	0.0	140.6	SURCH'ED
	29.008	9.077	0.197	0.000	1.10	0.0	140.9	SURCH'ED
	29.009	9.041	0.201	0.000	0.93	0.0	142.8	SURCH'ED
	29.010	8.969	0.239	0.000	1.07	0.0	144.1	SURCH'ED
	29.011	8.909	0.239	0.000	1.02	0.0	146.5	SURCH'ED
	29.012	8.850	0.240	0.000	1.41	0.0	144.9	SURCH'ED
	29.013	8.805	0.225	0.000	0.74	0.0	158.7	SURCH'ED
	29.014	8.592	0.402	0.000	0.86	0.0	188.6	SURCH'ED
	31.000	10.791	-0.369	0.000	0.07	0.0	9.0	0 K
	31.001	10.743	-0.347	0.000	0.06	0.0	18.5	0 K
	31.002	10.734	0.024	0.000	0.10	0.0	24.9	SURCH'ED
	32.000	10.902	-0.113	0.000	0.49	0.0	26.7	0 K
	32.001	10.818	0.153	0.000	0.69	0.0	36.3	SURCH'ED
	32.002	10.766	0.331	0.000	0.55	0.0	27.3	SURCH'ED
	31.003	10.729	0.424	0.000	1.28	0.0	62.2	SURCH'ED
	31.004	10.579	0.549	0.000	1.20	0.0	133.1	SURCH'ED
	31.005	9.175	0.095	0.000	1.18	0.0	135.9	SURCH'ED
	33.000	9.409	0.084	0.000	1.07	0.0	48.9	SURCH'ED
	31.006	8.934	-0.011	0.000	0.80	0.0	191.2	0 K
	31.007	8.642	0.467	0.000	1.04	0.0	187.4	SURCH'ED

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Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m)...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
29.015	30 Winter	30	10%	1	30/15 Summer			
34.000	15 Summer	30	10%	1				
34.001	15 Summer	30	10%	1				
35.000	15 Winter	30	10%	1	30/15 Winter			
35.001	15 Winter	30	10%	1	30/15 Summer			
35.002	15 Winter	30	10%	1	30/15 Summer			
35.003	15 Winter	30	10%	1	30/15 Summer			
35.004	15 Winter	30	10%	1	30/15 Summer			
35.005	15 Winter	30	10%	1				
35.006	15 Winter	30	10%	1				
35.007	15 Winter	30	10%	1				
35.008	15 Winter	30	10%	1				
35.009	15 Winter	30	10%	1				
35.010	15 Winter	30	10%	1	30/15 Summer			
35.011	15 Winter	30	10%	1	30/15 Summer			
34.002	15 Winter	30	10%	1	30/15 Summer			
34.003	15 Winter	30	10%	1	30/15 Summer			
36.000	15 Winter	30	10%	1				
36.001	15 Winter	30	10%	1				
36.002	15 Winter	30	10%	1	30/15 Summer			
36.003	15 Winter	30	10%	1	30/15 Summer			
36.004	15 Winter	30	10%	1	30/15 Summer			
36.005	15 Winter	30	10%	1				
36.006	15 Winter	30	10%	1	30/15 Summer			
36.007	15 Winter	30	10%	1	30/15 Summer			
34.004	15 Winter	30	10%	1	30/15 Summer			


Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	29.015	8.339	0.484	0.000	0.79	0.0	341.8	SURCH'ED
	34.000	10.838	-0.152	0.000	0.48	0.0	46.8	0 K
	34.001	10.449	-0.101	0.000	0.73	0.0	87.4	0 K
	35.000	13.228	0.033	0.000	0.21	0.0	7.9	SURCH'ED
	35.001	13.214	0.189	0.000	0.91	0.0	35.0	SURCH'ED
	35.002	12.968	0.313	0.000	1.00	0.0	37.2	SURCH'ED
	35.003	12.797	0.322	0.000	1.31	0.0	50.2	SURCH'ED
	35.004	12.259	0.084	0.000	1.43	0.0	51.1	SURCH'ED
	35.005	12.059	-0.031	0.000	1.00	0.0	56.5	0 K
	35.006	11.925	-0.105	0.000	0.72	0.0	76.3	0 K
	35.007	11.428	-0.072	0.000	0.92	0.0	94.0	0 K
	35.008	11.088	-0.082	0.000	0.87	0.0	110.1	0 K
	35.009	10.479	-0.206	0.000	0.41	0.0	114.4	0 K
	35.010	10.249	0.149	0.000	0.62	0.0	105.6	SURCH'ED
	35.011	10.227	0.187	0.000	0.52	0.0	122.1	SURCH'ED
	34.002	10.178	0.318	0.000	1.12	0.0	188.6	SURCH'ED
	34.003	10.080	0.370	0.000	1.12	0.0	224.3	SURCH'ED
	36.000	11.106	-0.119	0.000	0.33	0.0	12.7	0 K
	36.001	11.082	-0.043	0.000	0.68	0.0	25.4	0 K
	36.002	11.030	0.025	0.000	0.93	0.0	36.8	SURCH'ED
	36.003	10.897	0.052	0.000	1.33	0.0	37.8	SURCH'ED
	36.004	10.828	0.013	0.000	1.02	0.0	48.6	SURCH'ED
	36.005	10.403	-0.102	0.000	0.83	0.0	159.6	0 K
	36.006	9.904	0.299	0.000	0.78	0.0	133.5	SURCH'ED
	36.007	9.820	0.405	0.000	1.02	0.0	126.6	SURCH'ED
	34.004	9.733	0.343	0.000	1.07	0.0	360.2	SURCH'ED

J. B. Barry And Partners Ltd		Page 16
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
34.005	30 Winter	30	10%	1	30/15 Summer			
34.006	30 Winter	30	10%	1	30/15 Summer			
34.007	30 Winter	30	10%	1	30/15 Summer			
29.016	30 Winter	30	10%	1	30/15 Summer			
29.017	30 Winter	30	10%	1	30/15 Summer			
37.000	15 Winter	30	10%	1	30/15 Summer			
29.018	30 Winter	30	10%	1	30/15 Summer			
29.019	30 Winter	30	10%	1	30/15 Summer			
29.020	30 Winter	30	10%	1	30/15 Summer			
29.021	30 Winter	30	10%	1	30/15 Summer			
38.000	15 Winter	30	10%	1	30/15 Summer			
38.001	30 Winter	30	10%	1	30/15 Summer			
29.022	30 Winter	30	10%	1	30/15 Summer			
29.023	30 Winter	30	10%	1	30/15 Summer			
39.000	15 Winter	30	10%	1	30/15 Summer			
39.001	15 Winter	30	10%	1	30/15 Summer			
39.002	15 Winter	30	10%	1	30/15 Summer			
39.003	15 Winter	30	10%	1	30/15 Summer			
39.004	15 Winter	30	10%	1	30/15 Summer			
39.005	15 Winter	30	10%	1	30/15 Summer			
39.006	15 Winter	30	10%	1	30/15 Summer			
39.007	15 Winter	30	10%	1	30/15 Summer			
39.008	15 Winter	30	10%	1	30/15 Winter			
39.009	30 Winter	30	10%	1	30/15 Summer			
39.010	30 Winter	30	10%	1	30/15 Summer			
39.011	30 Winter	30	10%	1	30/15 Summer			


Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	34.005	8.954	0.349	0.000	1.05	0.0	331.2	SURCH'ED
	34.006	8.776	0.341	0.000	1.06	0.0	334.3	SURCH'ED
	34.007	8.595	0.405	0.000	1.22	0.0	334.8	SURCH'ED
	29.016	8.194	0.569	0.000	1.22	0.0	676.5	SURCH'ED
	29.017	7.908	0.473	0.000	1.46	0.0	678.1	SURCH'ED
	37.000	8.510	0.575	0.000	1.31	0.0	58.8	SURCH'ED
	29.018	7.622	0.377	0.000	1.33	0.0	713.0	SURCH'ED
	29.019	7.306	0.241	0.000	1.11	0.0	719.9	SURCH'ED
	29.020	6.983	0.178	0.000	1.55	0.0	722.4	SURCH'ED
	29.021	6.634	-0.051	0.000	0.78	0.0	732.7	O K
	38.000	6.520	0.310	0.000	1.26	0.0	81.5	SURCH'ED
	38.001	6.191	0.271	0.000	1.18	0.0	64.9	SURCH'ED
	29.022	6.143	0.268	0.000	1.68	0.0	783.1	SURCH'ED
	29.023	5.685	-0.110	0.000	0.99	0.0	802.9	O K
	39.000	8.585	0.210	0.000	0.22	0.0	8.3	SURCH'ED
	39.001	8.574	0.299	0.000	0.41	0.0	14.7	SURCH'ED
	39.002	8.553	0.358	0.000	0.59	0.0	21.8	SURCH'ED
	39.003	8.513	0.428	0.000	0.78	0.0	28.6	SURCH'ED
	39.004	8.471	0.466	0.000	1.35	0.0	52.3	SURCH'ED
	39.005	8.170	0.325	0.000	1.55	0.0	53.4	SURCH'ED
	39.006	8.030	0.245	0.000	1.42	0.0	54.9	SURCH'ED
	39.007	7.828	0.143	0.000	1.49	0.0	56.2	SURCH'ED
	39.008	7.593	0.028	0.000	0.84	0.0	63.1	SURCH'ED
	39.009	7.292	0.307	0.000	0.84	0.0	62.0	SURCH'ED
	39.010	7.062	0.492	0.000	0.88	0.0	58.6	SURCH'ED
	39.011	7.021	0.446	0.000	0.61	0.0	65.1	SURCH'ED

J. B. Barry And Partners Ltd		Page 17
Tramway House 32 Darry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File_Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
40.000	15 Winter	30	10%	1	30/15 Summer			
40.001	15 Winter	30	10%	1				
40.002	15 Winter	30	10%	1				
40.003	15 Winter	30	10%	1				
40.004	15 Winter	30	10%	1	30/15 Winter			
39.012	30 Winter	30	10%	1	30/15 Summer			
39.013	30 Winter	30	10%	1	30/15 Summer			
39.014	30 Winter	30	10%	1	30/15 Summer			
39.015	30 Winter	30	10%	1	30/15 Summer			
39.016	30 Winter	30	10%	1	30/15 Summer			
41.000	15 Winter	30	10%	1	30/15 Summer			
41.001	15 Winter	30	10%	1	30/15 Summer			
41.002	15 Winter	30	10%	1	30/15 Summer			
41.003	15 Winter	30	10%	1	30/15 Summer			
41.004	30 Winter	30	10%	1	30/15 Summer			
41.005	30 Winter	30	10%	1	30/15 Summer			
39.017	30 Winter	30	10%	1	30/15 Summer			
39.018	30 Winter	30	10%	1	30/15 Summer			
39.019	30 Winter	30	10%	1	30/15 Summer			
39.020	30 Winter	30	10%	1	30/15 Summer			
39.021	30 Winter	30	10%	1	30/15 Summer			
39.022	30 Winter	30	10%	1	30/15 Summer			
42.000	15 Winter	30	10%	1	30/15 Summer			
43.000	15 Winter	30	10%	1	30/15 Summer			
43.001	15 Winter	30	10%	1	30/15 Summer			
42.001	15 Winter	30	10%	1	30/15 Summer			


Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	8.700	0.265	0.000	1.19	0.0	52.5	SURCH'ED
	40.001	7.816	-0.064	0.000	0.97	0.0	59.9	O K
	40.002	7.707	-0.073	0.000	0.90	0.0	94.6	O K
	40.003	7.266	-0.059	0.000	0.76	0.0	103.0	O K
	40.004	7.221	0.016	0.000	0.81	0.0	159.9	SURCH'ED
	39.012	6.997	0.572	0.000	0.87	0.0	170.6	SURCH'ED
	39.013	6.864	0.689	0.000	1.47	0.0	172.8	SURCH'ED
	39.014	6.724	0.639	0.000	1.39	0.0	171.6	SURCH'ED
	39.015	6.581	0.591	0.000	0.80	0.0	175.9	SURCH'ED
	39.016	6.499	0.679	0.000	1.00	0.0	169.2	SURCH'ED
	41.000	8.027	0.087	0.000	1.02	0.0	66.9	SURCH'ED
	41.001	7.681	0.071	0.000	0.84	0.0	70.2	SURCH'ED
	41.002	7.550	0.150	0.000	0.81	0.0	94.3	SURCH'ED
	41.003	7.194	0.424	0.000	0.99	0.0	94.9	SURCH'ED
	41.004	7.068	0.468	0.000	1.21	0.0	126.9	SURCH'ED
	41.005	6.615	0.490	0.000	0.82	0.0	130.5	SURCH'ED
	39.017	6.450	0.700	0.000	1.12	0.0	290.3	SURCH'ED
	39.018	6.235	0.695	0.000	1.36	0.0	287.4	SURCH'ED
	39.019	6.017	0.617	0.000	1.01	0.0	287.6	SURCH'ED
	39.020	5.780	0.650	0.000	0.85	0.0	274.5	SURCH'ED
	39.021	5.554	0.679	0.000	1.12	0.0	279.0	SURCH'ED
	39.022	5.432	0.637	0.000	0.96	0.0	294.0	SURCH'ED
	42.000	6.775	0.120	0.000	1.09	0.0	44.7	SURCH'ED
	43.000	7.566	0.521	0.000	1.21	0.0	60.7	SURCH'ED
	43.001	6.664	0.229	0.000	1.42	0.0	67.2	SURCH'ED
	42.001	6.341	0.061	0.000	1.02	0.0	117.2	SURCH'ED

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Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 30YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017 File Y17205 - Option 2 - 30YR SWS Surcharged (+3.7m) ...	Designed By SW Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
42.002	15 Winter	30	10%	1	30/15 Summer			
39.023	30 Winter	30	10%	1	30/15 Summer			
39.024	30 Winter	30	10%	1	30/15 Summer			
39.025	30 Winter	30	10%	1	30/15 Summer			
39.026	30 Winter	30	10%	1	30/15 Summer			
39.027	30 Winter	30	10%	1	30/15 Summer			
39.028	30 Winter	30	10%	1	30/15 Summer			
29.024	30 Winter	30	10%	1	30/15 Summer			
29.025	30 Winter	30	10%	1	30/15 Summer			
29.026	30 Winter	30	10%	1	30/15 Summer			
29.027	30 Winter	30	10%	1	30/15 Summer			
29.028	30 Winter	30	10%	1	30/15 Summer			
1.032	1440 Winter	30	10%	1	30/960 Winter			
1.033	1440 Winter	30	10%	1	30/960 Winter			
1.034	1440 Winter	30	10%	1	30/15 Summer			
1.035	1440 Winter	30	10%	1	30/15 Summer	30/480 Summer		

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	42.002	6.145	0.075	0.000	1.05	0.0	140.3	SURCH'ED
	39.023	5.310	0.755	0.000	1.03	0.0	382.0	SURCH'ED
	39.024	5.259	0.764	0.000	1.40	0.0	387.1	SURCH'ED
	39.025	5.207	0.752	0.000	1.08	0.0	390.8	SURCH'ED
	39.026	5.149	0.754	0.000	1.36	0.0	390.0	SURCH'ED
	39.027	5.098	0.743	0.000	1.90	0.0	387.1	SURCH'ED
	39.028	5.057	0.722	0.000	1.11	0.0	380.1	SURCH'ED
	29.024	5.002	0.712	0.000	1.21	0.0	1160.8	SURCH'ED
	29.025	4.737	0.587	0.000	1.22	0.0	1163.6	SURCH'ED
	29.026	4.471	0.421	0.000	1.22	0.0	1166.0	SURCH'ED
	29.027	4.204	0.284	0.000	1.22	0.0	1169.0	SURCH'ED
	29.028	3.937	0.197	0.000	1.87	0.0	1168.8	SURCH'ED
	1.032	3.805	0.095	0.000	0.31	0.0	354.4	SURCH'ED
	1.033	3.804	0.114	0.000	0.23	0.0	352.1	SURCH'ED
	1.034	3.803	1.703	0.000	2.49	0.0	199.0	SURCH'ED
	1.035	3.993	2.687	0.000	3.53	0.0	199.1	SURCH'ED

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Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 100YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017 File Y17205 - Option 2 - 100YR FD -SWS Free Discharge...	Designed By SW Checked By	
Micro Drainage	Simulation W.11.2	

Global Variables

Region	FSR - Scotland & Ireland
Return Period (yrs)	100
M5-60 (mm)	15.800
Ratio R	0.300
Volumetric Runoff Coef	0.750
Profile Type	Summer
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	15
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole Headloss Coefficient	0.500
MADD Factor * 10m ³ /ha Storage	2.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	10
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	0
Number of On-Line Controls	0

Starting Storm file name

O:\Y17 Projects\Y17205 - Portmanock South Residential Project\Micro D\Fox Lands Added(B).sws

Freely Discharging Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
1.035	P1	1.800	0.900	1200	0

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
100YR + 10% (opt2)
Free Discharge(300mm)

Date 29th Nov 2017
File_Y17205 - Option 2 - 100YR FD -SWS Free Discharge...

Designed By SW
Checked By




Micro Drainage Simulation W.11.2

Storage Pond at pipe 1.034 USMH Wetland

Storage Pond Invert Level (m) 1.800

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.0	3719.0	0.8	5079.0	1.6	6439.0	2.4	7799.0	3.2	7830.0	4.0	7830.0	4.8	7830.0
0.2	4059.0	1.0	5419.0	1.8	6779.0	2.6	7830.0	3.4	7830.0	4.2	7830.0	5.0	7830.0
0.4	4399.0	1.2	5759.0	2.0	7119.0	2.8	7830.0	3.6	7830.0	4.4	7830.0		
0.6	4739.0	1.4	6099.0	2.2	7459.0	3.0	7830.0	3.8	7830.0	4.6	7830.0		

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Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 100YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 100YR FD -SWS Free Discharge...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm) 300 Inertia Status OFF
DTS Status ON Analysis Time Step Fine
DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 100
Climate Change (%) 10


PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
1.000	30 Winter	100	10%	1	100/15 Summer			
1.001	30 Winter	100	10%	1	100/15 Summer			
1.002	30 Winter	100	10%	1	100/15 Summer			
1.003	30 Winter	100	10%	1	100/15 Summer			
1.004	30 Winter	100	10%	1	100/15 Summer			
1.005	30 Winter	100	10%	1	100/15 Summer			
2.000	30 Winter	100	10%	1				
2.001	30 Winter	100	10%	1	100/30 Summer			
2.002	30 Winter	100	10%	1	100/15 Summer			
2.003	30 Winter	100	10%	1	100/15 Summer			
2.004	30 Winter	100	10%	1	100/15 Summer			
1.006	30 Winter	100	10%	1	100/15 Summer			
1.007	30 Winter	100	10%	1	100/15 Summer			
1.008	30 Winter	100	10%	1	100/15 Summer			
1.009	30 Winter	100	10%	1	100/15 Summer			
1.010	30 Winter	100	10%	1	100/15 Summer			
1.011	30 Winter	100	10%	1	100/15 Summer			
1.012	30 Winter	100	10%	1	100/15 Summer			
1.013	30 Winter	100	10%	1	100/15 Summer			
3.000	30 Winter	100	10%	1				
3.001	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.000	11.746	0.751	0.000	0.33	0.0	13.1	SURCH'ED
	1.001	11.730	0.975	0.000	0.56	0.0	22.8	FLD RISK
	1.002	11.699	1.169	0.000	0.54	0.0	34.3	FLD RISK
	1.003	11.674	1.274	0.000	0.71	0.0	43.1	FLD RISK
	1.004	11.651	1.331	0.000	0.77	0.0	48.4	FLD RISK
	1.005	11.617	1.435	0.000	0.91	0.0	53.9	SURCH'ED
	2.000	11.679	-0.016	0.000	0.28	0.0	15.1	O K
	2.001	11.664	0.249	0.000	0.36	0.0	18.9	SURCH'ED
	2.002	11.649	0.464	0.000	0.43	0.0	21.1	SURCH'ED
	2.003	11.635	0.600	0.000	0.49	0.0	20.7	SURCH'ED
	2.004	11.627	0.682	0.000	0.69	0.0	31.6	SURCH'ED
	1.006	11.597	1.468	0.000	1.20	0.0	79.1	SURCH'ED
	1.007	11.289	1.429	0.000	1.82	0.0	84.6	SURCH'ED
	1.008	11.210	1.380	0.000	1.61	0.0	98.9	SURCH'ED
	1.009	10.811	1.146	0.000	1.30	0.0	127.0	SURCH'ED
	1.010	10.547	1.042	0.000	1.62	0.0	134.2	SURCH'ED
	1.011	10.430	0.955	0.000	1.55	0.0	157.1	SURCH'ED
	1.012	10.050	0.735	0.000	1.72	0.0	159.1	SURCH'ED
	1.013	9.885	0.620	0.000	1.99	0.0	162.5	SURCH'ED
	3.000	9.782	-0.138	0.000	0.36	0.0	145.8	O K
	3.001	9.750	0.200	0.000	0.33	0.0	122.5	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
3.002	30 Winter	100	10%	1	100/15 Summer			
1.014	30 Winter	100	10%	1	100/15 Summer			
1.015	30 Winter	100	10%	1	100/15 Summer			
4.000	15 Winter	100	10%	1	100/15 Summer			
4.001	15 Winter	100	10%	1	100/15 Summer			
4.002	15 Winter	100	10%	1	100/15 Summer			
4.003	15 Winter	100	10%	1	100/15 Summer			
4.004	15 Winter	100	10%	1	100/15 Summer			
5.000	15 Winter	100	10%	1	100/15 Summer			
5.001	15 Winter	100	10%	1	100/15 Summer			
4.005	30 Winter	100	10%	1	100/15 Summer			
6.000	30 Winter	100	10%	1	100/15 Summer	100/30 Summer		
6.001	30 Winter	100	10%	1	100/15 Summer			
7.000	30 Winter	100	10%	1	100/15 Summer			
6.002	30 Winter	100	10%	1	100/15 Summer			
4.006	30 Winter	100	10%	1	100/15 Summer			
4.007	30 Winter	100	10%	1	100/15 Summer			
8.000	15 Winter	100	10%	1	100/15 Summer			
8.001	15 Winter	100	10%	1	100/15 Summer			
8.002	15 Winter	100	10%	1	100/15 Summer			
8.003	15 Winter	100	10%	1	100/15 Summer			
4.008	30 Winter	100	10%	1	100/15 Summer			
1.016	30 Winter	100	10%	1	100/15 Summer			
1.017	30 Winter	100	10%	1	100/15 Summer			
1.018	30 Winter	100	10%	1	100/15 Summer			
9.000	15 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	3.002	9.723	0.323	0.000	0.55	0.0	121.3	SURCH'ED
	1.014	9.714	0.474	0.000	1.49	0.0	294.1	SURCH'ED
	1.015	9.267	0.227	0.000	2.78	0.0	296.6	SURCH'ED
	4.000	11.568	0.493	0.000	0.98	0.0	40.0	SURCH'ED
	4.001	11.357	0.692	0.000	1.20	0.0	48.3	SURCH'ED
	4.002	11.017	0.605	0.000	1.03	0.0	53.7	SURCH'ED
	4.003	10.764	0.589	0.000	1.11	0.0	61.6	SURCH'ED
	4.004	10.074	0.457	0.000	1.47	0.0	74.5	SURCH'ED
	5.000	9.902	0.417	0.000	0.46	0.0	15.3	SURCH'ED
	5.001	9.870	0.560	0.000	0.93	0.0	56.5	SURCH'ED
	4.005	9.667	0.593	0.000	1.32	0.0	139.2	SURCH'ED
3	6.000	8.705	1.145	46.340	1.10	0.0	211.9	FLOOD
	6.001	8.812	1.292	0.000	0.92	0.0	223.4	FLD RISK
	7.000	9.068	0.533	0.000	1.06	0.0	56.9	SURCH'ED
	6.002	8.912	1.462	0.000	1.03	0.0	244.8	SURCH'ED
	4.006	8.967	1.577	0.000	1.49	0.0	345.9	SURCH'ED
	4.007	8.945	1.625	0.000	1.36	0.0	343.3	SURCH'ED
	8.000	10.972	0.227	0.000	0.63	0.0	26.0	SURCH'ED
	8.001	10.899	0.409	0.000	0.80	0.0	31.2	SURCH'ED
	8.002	10.829	0.454	0.000	1.17	0.0	55.7	SURCH'ED
	8.003	10.174	0.257	0.000	1.24	0.0	70.5	SURCH'ED
	4.008	8.901	1.661	0.000	1.68	0.0	397.8	SURCH'ED
	1.016	8.768	2.218	0.000	1.14	0.0	668.6	SURCH'ED
	1.017	8.627	2.137	0.000	2.50	0.0	669.4	SURCH'ED
	1.018	8.471	2.011	0.000	2.10	0.0	674.6	SURCH'ED
	9.000	9.337	0.177	0.000	1.10	0.0	110.3	SURCH'ED

J. B. Barry And Partners Ltd		Page 5
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 100YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 100YR FD -SWS Free Discharge...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms


PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
1.019	30 Winter	100	10%	1	100/15 Summer			
1.020	30 Winter	100	10%	1	100/15 Summer			
10.000	15 Winter	100	10%	1	100/15 Summer			
11.000	15 Winter	100	10%	1	100/15 Summer			
10.001	15 Winter	100	10%	1	100/15 Summer			
10.002	15 Winter	100	10%	1	100/15 Summer			
10.003	15 Winter	100	10%	1	100/15 Summer			
10.004	15 Winter	100	10%	1	100/15 Summer			
10.005	30 Winter	100	10%	1	100/15 Summer			
10.006	30 Winter	100	10%	1	100/15 Summer			
10.007	30 Winter	100	10%	1	100/15 Summer			
10.008	30 Winter	100	10%	1	100/15 Summer			
1.021	30 Winter	100	10%	1	100/15 Summer			
1.022	30 Winter	100	10%	1	100/15 Summer			
12.000	15 Winter	100	10%	1	100/15 Summer			
12.001	30 Winter	100	10%	1	100/15 Summer			
13.000	15 Winter	100	10%	1	100/15 Summer			
13.001	15 Winter	100	10%	1	100/15 Summer			
13.002	15 Winter	100	10%	1	100/15 Summer			
13.003	15 Winter	100	10%	1	100/15 Summer			
13.004	15 Winter	100	10%	1	100/15 Summer			
13.005	15 Winter	100	10%	1	100/15 Summer			
13.006	15 Winter	100	10%	1	100/30 Summer			
14.000	15 Winter	100	10%	1	100/15 Summer			
13.007	15 Winter	100	10%	1	100/15 Summer			
13.008	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (1/s)	Pipe Flow (1/s)	Status
	1.019	8.304	1.884	0.000	2.87	0.0	737.3	SURCH'ED
	1.020	8.100	1.710	0.000	2.78	0.0	735.1	SURCH'ED
	10.000	8.494	0.264	0.000	0.50	0.0	31.5	SURCH'ED
	11.000	8.468	0.328	0.000	0.17	0.0	10.1	FLD RISK
	10.001	8.459	0.409	0.000	0.79	0.0	42.3	SURCH'ED
	10.002	8.420	0.420	0.000	0.96	0.0	57.1	SURCH'ED
	10.003	8.357	0.427	0.000	1.26	0.0	73.4	SURCH'ED
	10.004	8.247	0.387	0.000	1.56	0.0	89.5	SURCH'ED
	10.005	8.153	0.363	0.000	1.15	0.0	97.6	SURCH'ED
	10.006	8.062	0.357	0.000	1.18	0.0	110.7	SURCH'ED
	10.007	8.017	0.382	0.000	1.03	0.0	106.5	SURCH'ED
	10.008	7.915	0.470	0.000	1.53	0.0	103.0	SURCH'ED
	1.021	7.888	1.528	0.000	1.46	0.0	830.1	SURCH'ED
	1.022	7.631	1.381	0.000	1.35	0.0	842.9	SURCH'ED
	12.000	12.475	0.500	0.000	0.84	0.0	33.7	SURCH'ED
	12.001	12.382	0.697	0.000	0.98	0.0	40.2	SURCH'ED
	13.000	14.100	0.345	0.000	0.38	0.0	13.7	SURCH'ED
	13.001	14.080	0.415	0.000	0.64	0.0	23.1	SURCH'ED
	13.002	14.031	0.516	0.000	0.82	0.0	33.2	SURCH'ED
	13.003	13.861	0.596	0.000	1.66	0.0	59.1	SURCH'ED
	13.004	13.647	0.462	0.000	1.66	0.0	63.2	SURCH'ED
	13.005	13.398	0.313	0.000	1.65	0.0	63.7	SURCH'ED
	13.006	13.066	0.141	0.000	0.88	0.0	61.3	SURCH'ED
	14.000	13.210	0.535	0.000	1.25	0.0	65.9	SURCH'ED
	13.007	12.401	0.426	0.000	1.06	0.0	131.7	SURCH'ED
	13.008	12.345	0.470	0.000	0.46	0.0	116.6	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
13.009	30 Winter	100	10%	1	100/15 Summer			
12.002	30 Winter	100	10%	1	100/15 Summer			
12.003	30 Winter	100	10%	1	100/15 Summer			
12.004	30 Winter	100	10%	1	100/15 Summer			
12.005	30 Winter	100	10%	1	100/15 Summer			
15.000	15 Winter	100	10%	1	100/15 Summer			
15.001	15 Winter	100	10%	1	100/15 Summer			
16.000	15 Winter	100	10%	1	100/15 Summer			
15.002	15 Winter	100	10%	1	100/15 Summer			
15.003	15 Winter	100	10%	1	100/15 Summer			
15.004	15 Winter	100	10%	1	100/15 Summer			
15.005	30 Winter	100	10%	1	100/30 Summer			
15.006	30 Winter	100	10%	1	100/15 Summer			
12.006	30 Winter	100	10%	1	100/15 Summer			
17.000	30 Winter	100	10%	1	100/15 Summer			
12.007	30 Winter	100	10%	1	100/15 Summer			
18.000	15 Winter	100	10%	1	100/15 Summer			
18.001	15 Winter	100	10%	1	100/15 Winter			
18.002	30 Winter	100	10%	1	100/15 Summer			
18.003	30 Winter	100	10%	1	100/15 Summer			
12.008	30 Winter	100	10%	1	100/15 Summer			
12.009	30 Winter	100	10%	1	100/15 Summer			
12.010	30 Winter	100	10%	1	100/15 Summer			
12.011	30 Winter	100	10%	1	100/15 Summer			
12.012	30 Winter	100	10%	1	100/15 Summer			
19.000	15 Summer	100	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (1/s)	Pipe Flow (1/s)	Status
	13.009	12.280	0.825	0.000	0.82	0.0	110.9	SURCH'ED
	12.002	12.242	0.907	0.000	1.27	0.0	168.4	SURCH'ED
	12.003	11.850	0.835	0.000	1.42	0.0	152.2	SURCH'ED
	12.004	11.706	0.761	0.000	0.97	0.0	159.0	SURCH'ED
	12.005	11.463	0.798	0.000	1.11	0.0	176.1	SURCH'ED
	15.000	12.625	0.220	0.000	0.99	0.0	37.6	SURCH'ED
	15.001	12.474	0.309	0.000	0.91	0.0	36.0	SURCH'ED
	16.000	13.167	0.392	0.000	1.06	0.0	61.4	SURCH'ED
	15.002	12.346	0.266	0.000	0.92	0.0	102.4	SURCH'ED
	15.003	12.148	0.298	0.000	1.53	0.0	108.4	SURCH'ED
	15.004	11.963	0.193	0.000	1.16	0.0	138.1	SURCH'ED
	15.005	11.488	0.213	0.000	0.75	0.0	150.1	SURCH'ED
	15.006	11.375	0.450	0.000	0.75	0.0	143.1	SURCH'ED
	12.006	11.264	0.724	0.000	0.76	0.0	280.0	SURCH'ED
	17.000	10.945	0.850	0.000	0.15	0.0	9.4	SURCH'ED
	12.007	10.941	0.961	0.000	1.29	0.0	289.9	FLD RISK
	18.000	11.440	0.095	0.000	1.13	0.0	49.4	SURCH'ED
	18.001	11.131	0.071	0.000	0.83	0.0	110.2	SURCH'ED
	18.002	10.944	0.499	0.000	0.55	0.0	96.9	SURCH'ED
	18.003	10.906	0.661	0.000	0.87	0.0	134.1	SURCH'ED
	12.008	10.694	0.874	0.000	1.12	0.0	386.0	SURCH'ED
	12.009	10.048	0.738	0.000	1.04	0.0	398.4	SURCH'ED
	12.010	9.677	0.712	0.000	1.46	0.0	404.2	SURCH'ED
	12.011	9.401	0.566	0.000	1.64	0.0	407.9	SURCH'ED
	12.012	9.120	0.365	0.000	1.64	0.0	407.9	SURCH'ED
	19.000	8.944	-0.416	0.000	0.02	0.0	6.6	O K

J. B. Barry And Partners Ltd		Page 7
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 100YR + 10% (opt2) Free Discharge(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - 100YR FD -SWS Free Discharge...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
12.013	30 Winter	100	10%	1	100/15 Summer			
12.014	30 Winter	100	10%	1	100/30 Summer			
12.015	30 Winter	100	10%	1	100/15 Summer			
12.016	30 Winter	100	10%	1	100/15 Summer			
12.017	30 Winter	100	10%	1	100/15 Summer			
1.023	30 Winter	100	10%	1	100/15 Summer			
20.000	15 Winter	100	10%	1	100/15 Summer			
20.001	15 Winter	100	10%	1	100/15 Summer			
20.002	15 Winter	100	10%	1	100/15 Summer			
20.003	15 Winter	100	10%	1	100/15 Summer			
20.004	15 Winter	100	10%	1	100/15 Summer			
20.005	15 Winter	100	10%	1	100/15 Summer			
21.000	15 Winter	100	10%	1	100/15 Summer			
20.006	15 Winter	100	10%	1	100/15 Summer			
1.024	30 Winter	100	10%	1	100/15 Summer			
22.000	15 Winter	100	10%	1	100/15 Summer			
1.025	30 Winter	100	10%	1	100/15 Summer			
23.000	15 Summer	100	10%	1				
1.026	30 Winter	100	10%	1	100/15 Summer			
1.027	30 Winter	100	10%	1	100/15 Summer			
1.028	30 Winter	100	10%	1	100/15 Summer			
1.029	30 Winter	100	10%	1				
1.030	30 Winter	100	10%	1				
24.000	15 Summer	100	10%	1				
24.001	15 Winter	100	10%	1	100/15 Summer			
25.000	15 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	12.013	8.841	0.176	0.000	1.20	0.0	413.1	SURCH'ED
	12.014	8.553	0.088	0.000	0.87	0.0	416.6	SURCH'ED
	12.015	8.259	0.184	0.000	1.05	0.0	419.5	SURCH'ED
	12.016	7.959	0.154	0.000	1.02	0.0	421.7	SURCH'ED
	12.017	7.612	0.137	0.000	1.47	0.0	422.5	SURCH'ED
	1.023	7.267	1.227	0.000	1.83	0.0	1260.9	SURCH'ED
	20.000	9.440	0.075	0.000	0.48	0.0	26.0	SURCH'ED
	20.001	9.391	0.426	0.000	0.65	0.0	34.0	SURCH'ED
	20.002	9.302	0.587	0.000	0.90	0.0	62.3	SURCH'ED
	20.003	8.558	0.733	0.000	1.68	0.0	81.2	SURCH'ED
	20.004	7.679	0.169	0.000	0.92	0.0	93.3	SURCH'ED
	20.005	7.415	0.215	0.000	1.52	0.0	93.3	SURCH'ED
	21.000	8.349	0.704	0.000	1.46	0.0	59.7	SURCH'ED
	20.006	7.276	0.116	0.000	1.23	0.0	154.1	SURCH'ED
	1.024	6.955	0.965	0.000	2.08	0.0	1381.0	SURCH'ED
	22.000	7.289	0.354	0.000	1.25	0.0	56.2	SURCH'ED
	1.025	6.585	0.645	0.000	2.31	0.0	1398.7	SURCH'ED
	23.000	6.537	-0.198	0.000	0.03	0.0	2.5	O K
	1.026	6.203	0.303	0.000	2.89	0.0	1400.4	SURCH'ED
	1.027	6.111	0.221	0.000	2.21	0.0	1400.4	SURCH'ED
	1.028	5.904	0.054	0.000	2.12	0.0	1401.5	SURCH'ED
	1.029	5.065	-0.225	0.000	0.97	0.0	1403.3	O K
	1.030	4.163	-0.177	0.000	0.68	0.0	1422.8	O K
	24.000	7.099	-0.136	0.000	0.33	0.0	24.3	O K
	24.001	7.058	0.243	0.000	0.58	0.0	43.3	SURCH'ED
	25.000	6.976	0.651	0.000	0.27	0.0	9.9	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
24.002	15 Winter	100	10%	1	100/15 Summer			
26.000	15 Winter	100	10%	1	100/15 Summer			
26.001	15 Winter	100	10%	1	100/15 Summer			
26.002	15 Winter	100	10%	1	100/15 Summer			
24.003	15 Winter	100	10%	1	100/15 Summer			
27.000	15 Summer	100	10%	1				
27.001	15 Summer	100	10%	1				
27.002	15 Winter	100	10%	1				
27.003	15 Winter	100	10%	1	100/15 Summer			
24.004	15 Winter	100	10%	1	100/15 Summer			
24.005	15 Winter	100	10%	1	100/15 Summer			
28.000	15 Summer	100	10%	1				
28.001	15 Summer	100	10%	1				
28.002	15 Summer	100	10%	1				
24.006	30 Winter	100	10%	1	100/30 Summer			
24.007	30 Winter	100	10%	1	100/30 Summer			
24.008	30 Winter	100	10%	1	100/30 Summer			
24.009	30 Winter	100	10%	1	100/30 Summer			
24.010	30 Winter	100	10%	1	100/15 Summer			
24.011	30 Winter	100	10%	1	100/30 Summer			
24.012	30 Winter	100	10%	1	100/30 Summer			
1.031	30 Winter	100	10%	1	100/15 Summer			
29.000	30 Winter	100	10%	1	100/15 Summer	100/30 Winter		
29.001	30 Winter	100	10%	1	100/15 Summer			
30.000	15 Summer	100	10%	1				
30.001	15 Summer	100	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	24.002	6.963	0.738	0.000	0.88	0.0	56.9	SURCH'ED
	26.000	7.382	0.437	0.000	0.58	0.0	44.0	SURCH'ED
	26.001	7.296	0.951	0.000	0.77	0.0	58.0	SURCH'ED
	26.002	7.042	1.257	0.000	1.23	0.0	77.6	FLD RISK
	24.003	6.269	0.989	0.000	1.30	0.0	154.9	FLD RISK
	27.000	6.816	-0.099	0.000	0.58	0.0	27.5	O K
	27.001	6.405	-0.060	0.000	0.86	0.0	40.3	O K
	27.002	6.213	-0.072	0.000	0.76	0.0	58.3	O K
	27.003	5.887	0.252	0.000	0.99	0.0	77.8	SURCH'ED
	24.004	4.736	0.341	0.000	2.12	0.0	227.0	SURCH'ED
	24.005	4.398	0.073	0.000	1.11	0.0	227.0	SURCH'ED
	28.000	5.583	-0.132	0.000	0.36	0.0	24.3	O K
	28.001	5.200	-0.075	0.000	0.77	0.0	60.4	O K
	28.002	4.168	-0.067	0.000	0.84	0.0	62.3	O K
	24.006	4.032	0.072	0.000	0.84	0.0	249.0	SURCH'ED
	24.007	4.020	0.070	0.000	0.62	0.0	265.8	SURCH'ED
	24.008	3.989	0.139	0.000	1.35	0.0	249.5	SURCH'ED
	24.009	3.968	0.138	0.000	1.17	0.0	248.1	SURCH'ED
	24.010	3.949	0.139	0.000	1.10	0.0	243.0	SURCH'ED
	24.011	3.932	0.132	0.000	1.18	0.0	240.7	SURCH'ED
	24.012	3.912	0.132	0.000	0.98	0.0	244.0	SURCH'ED
	1.031	3.888	0.138	0.000	1.69	0.0	1624.5	SURCH'ED
1	29.000	10.320	0.845	0.133	0.81	0.0	93.7	FLOOD
	29.001	10.261	1.086	0.000	2.01	0.0	91.9	SURCH'ED
	30.000	10.362	-0.263	0.000	0.20	0.0	26.8	O K
	30.001	10.271	-0.224	0.000	0.34	0.0	46.3	O K

Tramway House
32 Darty Road
Dublin 6 Ireland

Portmarnock Sth Wetland
100YR + 10% (opt2)
Free Discharge(300mm)

Date 29th Nov 2017
File Y17205 - Option 2 - 100YR FD -SWS Free Discharge...

Designed By SW
Checked By

Micro Drainage

Simulation W.11.2



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
30.002	30 Winter	100	10%	1				
29.002	30 Winter	100	10%	1	100/15 Summer			
29.003	30 Winter	100	10%	1	100/15 Summer			
29.004	30 Winter	100	10%	1	100/15 Summer			
29.005	30 Winter	100	10%	1	100/15 Summer			
29.006	30 Winter	100	10%	1	100/15 Summer			
29.007	30 Winter	100	10%	1	100/15 Summer			
29.008	30 Winter	100	10%	1	100/15 Summer			
29.009	30 Winter	100	10%	1	100/15 Summer			
29.010	30 Winter	100	10%	1	100/15 Summer			
29.011	30 Winter	100	10%	1	100/15 Summer			
29.012	30 Winter	100	10%	1	100/15 Summer			
29.013	30 Winter	100	10%	1	100/15 Summer			
29.014	30 Winter	100	10%	1	100/15 Summer			
31.000	15 Winter	100	10%	1				
31.001	15 Winter	100	10%	1	100/15 Winter			
31.002	15 Winter	100	10%	1	100/15 Summer			
32.000	15 Winter	100	10%	1	100/15 Summer			
32.001	15 Winter	100	10%	1	100/15 Summer			
32.002	15 Winter	100	10%	1	100/15 Summer			
31.003	15 Winter	100	10%	1	100/15 Summer			
31.004	15 Winter	100	10%	1	100/15 Summer			
31.005	30 Winter	100	10%	1	100/15 Summer			
33.000	30 Winter	100	10%	1	100/15 Summer			
31.006	30 Winter	100	10%	1	100/15 Summer			
31.007	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.002	10.234	-0.131	0.000	0.33	0.0	47.3	O K
	29.002	10.221	1.076	0.000	1.88	0.0	139.8	SURCH'ED
	29.003	10.187	1.072	0.000	1.64	0.0	143.3	SURCH'ED
	29.004	10.136	1.071	0.000	1.52	0.0	150.1	SURCH'ED
	29.005	10.079	1.069	0.000	1.17	0.0	156.2	SURCH'ED
	29.006	10.041	1.081	0.000	1.22	0.0	162.2	SURCH'ED
	29.007	10.000	1.090	0.000	1.28	0.0	157.0	SURCH'ED
	29.008	9.973	1.093	0.000	1.19	0.0	152.2	SURCH'ED
	29.009	9.938	1.098	0.000	0.99	0.0	152.2	SURCH'ED
	29.010	9.871	1.141	0.000	1.17	0.0	158.6	SURCH'ED
	29.011	9.813	1.143	0.000	1.14	0.0	163.3	SURCH'ED
	29.012	9.752	1.142	0.000	1.54	0.0	157.4	SURCH'ED
	29.013	9.705	1.125	0.000	0.83	0.0	176.8	SURCH'ED
	29.014	9.450	1.260	0.000	0.89	0.0	195.3	FLD RISK
	31.000	11.130	-0.030	0.000	0.08	0.0	11.2	O K
	31.001	11.127	0.037	0.000	0.08	0.0	26.0	SURCH'ED
	31.002	11.122	0.412	0.000	0.17	0.0	41.6	SURCH'ED
	32.000	11.285	0.270	0.000	0.60	0.0	32.4	SURCH'ED
	32.001	11.237	0.572	0.000	0.70	0.0	37.0	SURCH'ED
	32.002	11.164	0.729	0.000	0.65	0.0	32.5	SURCH'ED
	31.003	11.120	0.815	0.000	1.40	0.0	68.4	SURCH'ED
	31.004	11.004	0.974	0.000	1.30	0.0	143.9	SURCH'ED
	31.005	9.871	0.791	0.000	1.15	0.0	131.6	SURCH'ED
	33.000	9.753	0.428	0.000	1.06	0.0	48.4	SURCH'ED
	31.006	9.670	0.725	0.000	0.85	0.0	201.1	SURCH'ED
	31.007	9.408	1.233	0.000	1.09	0.0	196.7	FLD RISK

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
29.015	30 Winter	100	10%	1	100/15 Summer	100/30 Winter		
34.000	15 Winter	100	10%	1	100/15 Winter			
34.001	15 Winter	100	10%	1	100/15 Summer			
35.000	15 Winter	100	10%	1	100/15 Summer			
35.001	15 Winter	100	10%	1	100/15 Summer			
35.002	15 Winter	100	10%	1	100/15 Summer			
35.003	15 Winter	100	10%	1	100/15 Summer			
35.004	15 Winter	100	10%	1	100/15 Summer			
35.005	15 Winter	100	10%	1	100/15 Summer			
35.006	15 Winter	100	10%	1				
35.007	15 Winter	100	10%	1	100/15 Summer			
35.008	30 Winter	100	10%	1	100/30 Summer			
35.009	30 Winter	100	10%	1	100/15 Summer			
35.010	30 Winter	100	10%	1	100/15 Summer			
35.011	30 Winter	100	10%	1	100/15 Summer			
34.002	30 Winter	100	10%	1	100/15 Summer			
34.003	30 Winter	100	10%	1	100/15 Summer			
36.000	15 Winter	100	10%	1	100/15 Summer			
36.001	15 Winter	100	10%	1	100/15 Summer			
36.002	15 Winter	100	10%	1	100/15 Summer			
36.003	15 Winter	100	10%	1	100/15 Summer			
36.004	15 Winter	100	10%	1	100/15 Summer			
36.005	30 Winter	100	10%	1	100/15 Summer			
36.006	30 Winter	100	10%	1	100/15 Summer			
36.007	30 Winter	100	10%	1	100/15 Summer			
34.004	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	29.015	9.120	1.265	0.107	0.86	0.0	371.7	FLOOD
	34.000	10.994	0.004	0.000	0.62	0.0	60.9	SURCH'ED
	34.001	10.938	0.388	0.000	0.79	0.0	94.1	SURCH'ED
	35.000	13.821	0.626	0.000	0.22	0.0	8.3	SURCH'ED
	35.001	13.804	0.779	0.000	1.00	0.0	38.4	SURCH'ED
	35.002	13.462	0.807	0.000	1.17	0.0	43.5	SURCH'ED
	35.003	13.222	0.747	0.000	1.63	0.0	62.4	SURCH'ED
	35.004	12.397	0.222	0.000	1.78	0.0	63.7	SURCH'ED
	35.005	12.112	0.022	0.000	1.25	0.0	70.7	SURCH'ED
	35.006	11.970	-0.060	0.000	0.87	0.0	91.7	O K
	35.007	11.591	0.091	0.000	1.07	0.0	108.9	SURCH'ED
	35.008	11.309	0.139	0.000	0.95	0.0	120.4	SURCH'ED
	35.009	10.969	0.284	0.000	0.44	0.0	123.3	SURCH'ED
	35.010	10.881	0.781	0.000	0.67	0.0	112.5	SURCH'ED
	35.011	10.859	0.819	0.000	0.54	0.0	126.7	SURCH'ED
	34.002	10.811	0.951	0.000	1.06	0.0	179.5	FLD RISK
	34.003	10.769	1.059	0.000	1.12	0.0	223.8	FLD RISK
	36.000	11.405	0.180	0.000	0.38	0.0	14.4	SURCH'ED
	36.001	11.384	0.259	0.000	0.74	0.0	27.5	SURCH'ED
	36.002	11.327	0.322	0.000	1.02	0.0	40.2	SURCH'ED
	36.003	11.179	0.334	0.000	1.37	0.0	39.1	SURCH'ED
	36.004	11.110	0.295	0.000	1.09	0.0	52.2	SURCH'ED
	36.005	10.800	0.295	0.000	0.84	0.0	160.8	SURCH'ED
	36.006	10.575	0.970	0.000	0.73	0.0	125.3	FLD RISK
	36.007	10.520	1.105	0.000	0.94	0.0	116.8	FLD RISK
	34.004	10.479	1.089	0.000	1.10	0.0	369.8	FLD RISK

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
34.005	30 Winter	100	10%	1	100/15 Summer			
34.006	30 Winter	100	10%	1	100/15 Summer			
34.007	30 Winter	100	10%	1	100/15 Summer			
29.016	30 Winter	100	10%	1	100/15 Summer			
29.017	30 Winter	100	10%	1	100/15 Summer			
37.000	15 Winter	100	10%	1	100/15 Summer			
29.018	30 Winter	100	10%	1	100/15 Summer			
29.019	30 Winter	100	10%	1	100/15 Summer			
29.020	30 Winter	100	10%	1	100/15 Summer			
29.021	30 Winter	100	10%	1	100/15 Summer			
38.000	15 Winter	100	10%	1	100/15 Summer			
38.001	30 Winter	100	10%	1	100/15 Summer			
29.022	30 Winter	100	10%	1	100/15 Summer			
29.023	30 Winter	100	10%	1	100/30 Summer			
39.000	15 Winter	100	10%	1	100/15 Summer			
39.001	15 Winter	100	10%	1	100/15 Summer			
39.002	15 Winter	100	10%	1	100/15 Summer			
39.003	15 Winter	100	10%	1	100/15 Summer			
39.004	15 Winter	100	10%	1	100/15 Summer			
39.005	15 Winter	100	10%	1	100/15 Summer			
39.006	30 Winter	100	10%	1	100/15 Summer			
39.007	30 Winter	100	10%	1	100/15 Summer			
39.008	30 Winter	100	10%	1	100/15 Summer			
39.009	30 Winter	100	10%	1	100/15 Summer			
39.010	30 Winter	100	10%	1	100/15 Summer			
39.011	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	34.005	9.758	1.153	0.000	1.09	0.0	344.2	FLD RISK
	34.006	9.571	1.136	0.000	1.07	0.0	339.0	FLD RISK
	34.007	9.380	1.190	0.000	1.24	0.0	338.5	FLD RISK
	29.016	8.954	1.329	0.000	1.30	0.0	720.6	FLD RISK
	29.017	8.631	1.196	0.000	1.55	0.0	723.2	FLD RISK
	37.000	9.113	1.178	0.000	1.51	0.0	67.8	FLD RISK
	29.018	8.306	1.061	0.000	1.43	0.0	768.5	FLD RISK
	29.019	7.939	0.874	0.000	1.20	0.0	779.1	SURCH'ED
	29.020	7.563	0.758	0.000	1.68	0.0	781.9	SURCH'ED
	29.021	7.185	0.500	0.000	0.85	0.0	796.7	SURCH'ED
	38.000	6.917	0.707	0.000	1.55	0.0	100.1	SURCH'ED
	38.001	6.650	0.730	0.000	1.64	0.0	90.1	FLD RISK
	29.022	6.608	0.733	0.000	1.84	0.0	857.6	SURCH'ED
	29.023	6.164	0.369	0.000	1.10	0.0	889.5	SURCH'ED
	39.000	9.045	0.670	0.000	0.23	0.0	8.6	SURCH'ED
	39.001	9.032	0.757	0.000	0.42	0.0	15.1	SURCH'ED
	39.002	9.009	0.814	0.000	0.65	0.0	24.1	SURCH'ED
	39.003	8.963	0.878	0.000	0.85	0.0	31.5	SURCH'ED
	39.004	8.907	0.902	0.000	1.61	0.0	62.4	FLD RISK
	39.005	8.563	0.718	0.000	1.78	0.0	61.3	SURCH'ED
	39.006	8.427	0.642	0.000	1.49	0.0	57.3	SURCH'ED
	39.007	8.289	0.604	0.000	1.48	0.0	56.1	SURCH'ED
	39.008	8.114	0.549	0.000	0.84	0.0	63.4	SURCH'ED
	39.009	7.861	0.876	0.000	0.87	0.0	64.4	SURCH'ED
	39.010	7.645	1.075	0.000	0.93	0.0	61.7	FLD RISK
	39.011	7.605	1.030	0.000	0.68	0.0	72.5	FLD RISK

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
40.000	15 Winter	100	10%	1	100/15 Summer			
40.001	15 Winter	100	10%	1	100/15 Summer			
40.002	30 Winter	100	10%	1	100/15 Summer			
40.003	30 Winter	100	10%	1	100/15 Summer			
40.004	30 Winter	100	10%	1	100/15 Summer			
39.012	30 Winter	100	10%	1	100/15 Summer			
39.013	30 Winter	100	10%	1	100/15 Summer			
39.014	30 Winter	100	10%	1	100/15 Summer			
39.015	30 Winter	100	10%	1	100/15 Summer			
39.016	30 Winter	100	10%	1	100/15 Summer			
41.000	15 Winter	100	10%	1	100/15 Summer			
41.001	15 Winter	100	10%	1	100/15 Summer			
41.002	30 Winter	100	10%	1	100/15 Summer			
41.003	30 Winter	100	10%	1	100/15 Summer			
41.004	30 Winter	100	10%	1	100/15 Summer			
41.005	30 Winter	100	10%	1	100/15 Summer			
39.017	30 Winter	100	10%	1	100/15 Summer			
39.018	30 Winter	100	10%	1	100/15 Summer			
39.019	30 Winter	100	10%	1	100/15 Summer			
39.020	30 Winter	100	10%	1	100/15 Summer			
39.021	30 Winter	100	10%	1	100/15 Summer			
39.022	30 Winter	100	10%	1	100/15 Summer			
42.000	15 Winter	100	10%	1	100/15 Summer			
43.000	15 Winter	100	10%	1	100/15 Summer			
43.001	15 Winter	100	10%	1	100/15 Summer			
42.001	15 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	9.117	0.682	0.000	1.39	0.0	61.3	SURCH'ED
	40.001	8.040	0.160	0.000	1.04	0.0	64.7	SURCH'ED
	40.002	7.971	0.191	0.000	0.93	0.0	97.6	SURCH'ED
	40.003	7.791	0.466	0.000	0.73	0.0	98.5	SURCH'ED
	40.004	7.758	0.553	0.000	0.80	0.0	157.0	SURCH'ED
	39.012	7.582	1.157	0.000	0.88	0.0	172.6	FLD RISK
	39.013	7.442	1.267	0.000	1.50	0.0	175.8	FLD RISK
	39.014	7.294	1.209	0.000	1.40	0.0	173.9	FLD RISK
	39.015	7.142	1.152	0.000	0.81	0.0	179.1	FLD RISK
	39.016	7.056	1.236	0.000	1.01	0.0	170.2	FLD RISK
	41.000	8.462	0.522	0.000	1.18	0.0	77.6	SURCH'ED
	41.001	8.269	0.659	0.000	0.89	0.0	74.6	SURCH'ED
	41.002	8.144	0.744	0.000	0.80	0.0	93.0	SURCH'ED
	41.003	7.849	1.079	0.000	0.91	0.0	87.2	FLD RISK
	41.004	7.720	1.120	0.000	1.27	0.0	134.0	FLD RISK
	41.005	7.187	1.062	0.000	0.85	0.0	135.1	FLD RISK
	39.017	7.003	1.253	0.000	1.15	0.0	296.3	FLD RISK
	39.018	6.769	1.229	0.000	1.38	0.0	291.7	FLD RISK
	39.019	6.530	1.130	0.000	1.03	0.0	293.4	FLD RISK
	39.020	6.269	1.139	0.000	0.88	0.0	284.3	FLD RISK
	39.021	6.020	1.145	0.000	1.17	0.0	290.6	FLD RISK
	39.022	5.885	1.090	0.000	0.98	0.0	300.4	SURCH'ED
	42.000	7.175	0.520	0.000	1.23	0.0	50.6	SURCH'ED
	43.000	8.156	1.111	0.000	1.37	0.0	68.6	FLD RISK
	43.001	7.091	0.656	0.000	1.61	0.0	75.9	SURCH'ED
	42.001	6.677	0.397	0.000	1.14	0.0	130.7	SURCH'ED

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
100YR + 10% (opt2)
Free Discharge(300mm)

Date 29th Nov 2017
File Y17205 - Option 2 - 100YR FD -SWS Free Discharge...

Designed By SW
Checked By




Micro Drainage Simulation W.11.2

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
42.002	15 Winter	100	10%	1	100/15 Summer			
39.023	30 Winter	100	10%	1	100/15 Summer			
39.024	30 Winter	100	10%	1	100/15 Summer			
39.025	30 Winter	100	10%	1	100/15 Summer			
39.026	30 Winter	100	10%	1	100/15 Summer			
39.027	30 Winter	100	10%	1	100/15 Summer			
39.028	30 Winter	100	10%	1	100/15 Summer			
29.024	30 Winter	100	10%	1	100/15 Summer			
29.025	30 Winter	100	10%	1	100/15 Summer			
29.026	30 Winter	100	10%	1	100/15 Summer			
29.027	30 Winter	100	10%	1	100/15 Summer			
29.028	30 Winter	100	10%	1	100/15 Summer			
1.032	30 Winter	100	10%	1	100/30 Summer			
1.033	30 Summer	100	10%	1				
1.034	480 Winter	100	10%	1	100/15 Summer			
1.035	480 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	42.002	6.405	0.335	0.000	1.18	0.0	158.1	SURCH'ED
	39.023	5.749	1.194	0.000	1.06	0.0	392.6	SURCH'ED
	39.024	5.683	1.188	0.000	1.44	0.0	397.5	SURCH'ED
	39.025	5.618	1.163	0.000	1.11	0.0	401.9	SURCH'ED
	39.026	5.545	1.150	0.000	1.42	0.0	404.9	SURCH'ED
	39.027	5.482	1.127	0.000	1.99	0.0	405.4	SURCH'ED
	39.028	5.432	1.097	0.000	1.18	0.0	405.4	SURCH'ED
	29.024	5.363	1.073	0.000	1.33	0.0	1268.5	SURCH'ED
	29.025	5.046	0.896	0.000	1.33	0.0	1271.9	SURCH'ED
	29.026	4.727	0.677	0.000	1.33	0.0	1275.4	SURCH'ED
	29.027	4.407	0.487	0.000	1.34	0.0	1279.5	SURCH'ED
	29.028	4.085	0.345	0.000	2.04	0.0	1279.8	SURCH'ED
	1.032	3.764	0.054	0.000	2.57	0.0	2894.4	SURCH'ED
	1.033	3.690	0.000	0.000	1.81	0.0	2710.6	O K
	1.034	3.347	1.247	0.000	2.29	0.0	182.9	SURCH'ED
	1.035	2.301	0.995	0.000	3.24	0.0	182.9	SURCH'ED

J. B. Barry And Partners Ltd		Page 1
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 100YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017 File Y17205 - Option 2 - SWS Surcharged (+3.7m) 300pip...	Designed By SW Checked By	
Micro Drainage	Simulation W.11.2	

Global Variables

Region	FSR - Scotland & Ireland
Return Period (yrs)	100
M5-60 (mm)	15.800
Ratio R	0.300
Volumetric Runoff Coef	0.750
Profile Type	Summer
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	15
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole Headloss Coefficient	0.500
MADD Factor * 10m ³ /ha Storage	2.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	10
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	0
Number of On-Line Controls	0

Starting Storm file name

O:\Y17 Projects\Y17205 - Portmanock South Residential Project\Micro D\Fox Lands Added(B).sws

Surcharged Outfalls

Outfall			Outfall			C.Level			I.Level			D,L			B		
Pipe Number			MH/No			(m)			(m)			(mm)			(mm)		
1.035			P1			1.800			0.900			1200			0		
Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
-120	3.700	2.500	-94	3.700	2.500	-68	3.700	2.500	-42	3.700	2.500	-16	3.700	2.500			
-119	3.700	2.500	-93	3.700	2.500	-67	3.700	2.500	-41	3.700	2.500	-15	3.700	2.500			
-118	3.700	2.500	-92	3.700	2.500	-66	3.700	2.500	-40	3.700	2.500	-14	3.700	2.500			
-117	3.700	2.500	-91	3.700	2.500	-65	3.700	2.500	-39	3.700	2.500	-13	3.700	2.500			
-116	3.700	2.500	-90	3.700	2.500	-64	3.700	2.500	-38	3.700	2.500	-12	3.700	2.500			
-115	3.700	2.500	-89	3.700	2.500	-63	3.700	2.500	-37	3.700	2.500	-11	3.700	2.500			
-114	3.700	2.500	-88	3.700	2.500	-62	3.700	2.500	-36	3.700	2.500	-10	3.700	2.500			
-113	3.700	2.500	-87	3.700	2.500	-61	3.700	2.500	-35	3.700	2.500	-9	3.700	2.500			
-112	3.700	2.500	-86	3.700	2.500	-60	3.700	2.500	-34	3.700	2.500	-8	3.700	2.500			
-111	3.700	2.500	-85	3.700	2.500	-59	3.700	2.500	-33	3.700	2.500	-7	3.700	2.500			
-110	3.700	2.500	-84	3.700	2.500	-58	3.700	2.500	-32	3.700	2.500	-6	3.700	2.500			
-109	3.700	2.500	-83	3.700	2.500	-57	3.700	2.500	-31	3.700	2.500	-5	3.700	2.500			
-108	3.700	2.500	-82	3.700	2.500	-56	3.700	2.500	-30	3.700	2.500	-4	3.700	2.500			
-107	3.700	2.500	-81	3.700	2.500	-55	3.700	2.500	-29	3.700	2.500	-3	3.700	2.500			
-106	3.700	2.500	-80	3.700	2.500	-54	3.700	2.500	-28	3.700	2.500	-2	3.700	2.500			
-105	3.700	2.500	-79	3.700	2.500	-53	3.700	2.500	-27	3.700	2.500	-1	3.700	2.500			
-104	3.700	2.500	-78	3.700	2.500	-52	3.700	2.500	-26	3.700	2.500	0	3.700	2.500			
-103	3.700	2.500	-77	3.700	2.500	-51	3.700	2.500	-25	3.700	2.500	1	3.700	2.500			
-102	3.700	2.500	-76	3.700	2.500	-50	3.700	2.500	-24	3.700	2.500	2	3.700	2.500			
-101	3.700	2.500	-75	3.700	2.500	-49	3.700	2.500	-23	3.700	2.500	3	3.700	2.500			
-100	3.700	2.500	-74	3.700	2.500	-48	3.700	2.500	-22	3.700	2.500	4	3.700	2.500			
-99	3.700	2.500	-73	3.700	2.500	-47	3.700	2.500	-21	3.700	2.500	5	3.700	2.500			
-98	3.700	2.500	-72	3.700	2.500	-46	3.700	2.500	-20	3.700	2.500	6	3.700	2.500			
-97	3.700	2.500	-71	3.700	2.500	-45	3.700	2.500	-19	3.700	2.500	7	3.700	2.500			
-96	3.700	2.500	-70	3.700	2.500	-44	3.700	2.500	-18	3.700	2.500	8	3.700	2.500			
-95	3.700	2.500	-69	3.700	2.500	-43	3.700	2.500	-17	3.700	2.500	9	3.700	2.500			

Surcharged Outfalls														
Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
10	3.700	2.500	71	3.700	2.500	132	3.700	2.500	193	3.700	2.500	254	3.700	2.500
11	3.700	2.500	72	3.700	2.500	133	3.700	2.500	194	3.700	2.500	255	3.700	2.500
12	3.700	2.500	73	3.700	2.500	134	3.700	2.500	195	3.700	2.500	256	3.700	2.500
13	3.700	2.500	74	3.700	2.500	135	3.700	2.500	196	3.700	2.500	257	3.700	2.500
14	3.700	2.500	75	3.700	2.500	136	3.700	2.500	197	3.700	2.500	258	3.700	2.500
15	3.700	2.500	76	3.700	2.500	137	3.700	2.500	198	3.700	2.500	259	3.700	2.500
16	3.700	2.500	77	3.700	2.500	138	3.700	2.500	199	3.700	2.500	260	3.700	2.500
17	3.700	2.500	78	3.700	2.500	139	3.700	2.500	200	3.700	2.500	261	3.700	2.500
18	3.700	2.500	79	3.700	2.500	140	3.700	2.500	201	3.700	2.500	262	3.700	2.500
19	3.700	2.500	80	3.700	2.500	141	3.700	2.500	202	3.700	2.500	263	3.700	2.500
20	3.700	2.500	81	3.700	2.500	142	3.700	2.500	203	3.700	2.500	264	3.700	2.500
21	3.700	2.500	82	3.700	2.500	143	3.700	2.500	204	3.700	2.500	265	3.700	2.500
22	3.700	2.500	83	3.700	2.500	144	3.700	2.500	205	3.700	2.500	266	3.700	2.500
23	3.700	2.500	84	3.700	2.500	145	3.700	2.500	206	3.700	2.500	267	3.700	2.500
24	3.700	2.500	85	3.700	2.500	146	3.700	2.500	207	3.700	2.500	268	3.700	2.500
25	3.700	2.500	86	3.700	2.500	147	3.700	2.500	208	3.700	2.500	269	3.700	2.500
26	3.700	2.500	87	3.700	2.500	148	3.700	2.500	209	3.700	2.500	270	3.700	2.500
27	3.700	2.500	88	3.700	2.500	149	3.700	2.500	210	3.700	2.500	271	3.700	2.500
28	3.700	2.500	89	3.700	2.500	150	3.700	2.500	211	3.700	2.500	272	3.700	2.500
29	3.700	2.500	90	3.700	2.500	151	3.700	2.500	212	3.700	2.500	273	3.700	2.500
30	3.700	2.500	91	3.700	2.500	152	3.700	2.500	213	3.700	2.500	274	3.700	2.500
31	3.700	2.500	92	3.700	2.500	153	3.700	2.500	214	3.700	2.500	275	3.700	2.500
32	3.700	2.500	93	3.700	2.500	154	3.700	2.500	215	3.700	2.500	276	3.700	2.500
33	3.700	2.500	94	3.700	2.500	155	3.700	2.500	216	3.700	2.500	277	3.700	2.500
34	3.700	2.500	95	3.700	2.500	156	3.700	2.500	217	3.700	2.500	278	3.700	2.500
35	3.700	2.500	96	3.700	2.500	157	3.700	2.500	218	3.700	2.500	279	3.700	2.500
36	3.700	2.500	97	3.700	2.500	158	3.700	2.500	219	3.700	2.500	280	3.700	2.500
37	3.700	2.500	98	3.700	2.500	159	3.700	2.500	220	3.700	2.500	281	3.700	2.500
38	3.700	2.500	99	3.700	2.500	160	3.700	2.500	221	3.700	2.500	282	3.700	2.500
39	3.700	2.500	100	3.700	2.500	161	3.700	2.500	222	3.700	2.500	283	3.700	2.500
40	3.700	2.500	101	3.700	2.500	162	3.700	2.500	223	3.700	2.500	284	3.700	2.500
41	3.700	2.500	102	3.700	2.500	163	3.700	2.500	224	3.700	2.500	285	3.700	2.500
42	3.700	2.500	103	3.700	2.500	164	3.700	2.500	225	3.700	2.500	286	3.700	2.500
43	3.700	2.500	104	3.700	2.500	165	3.700	2.500	226	3.700	2.500	287	3.700	2.500
44	3.700	2.500	105	3.700	2.500	166	3.700	2.500	227	3.700	2.500	288	3.700	2.500
45	3.700	2.500	106	3.700	2.500	167	3.700	2.500	228	3.700	2.500	289	3.700	2.500
46	3.700	2.500	107	3.700	2.500	168	3.700	2.500	229	3.700	2.500	290	3.700	2.500
47	3.700	2.500	108	3.700	2.500	169	3.700	2.500	230	3.700	2.500	291	3.700	2.500
48	3.700	2.500	109	3.700	2.500	170	3.700	2.500	231	3.700	2.500	292	3.700	2.500
49	3.700	2.500	110	3.700	2.500	171	3.700	2.500	232	3.700	2.500	293	3.700	2.500
50	3.700	2.500	111	3.700	2.500	172	3.700	2.500	233	3.700	2.500	294	3.700	2.500
51	3.700	2.500	112	3.700	2.500	173	3.700	2.500	234	3.700	2.500	295	3.700	2.500
52	3.700	2.500	113	3.700	2.500	174	3.700	2.500	235	3.700	2.500	296	3.700	2.500
53	3.700	2.500	114	3.700	2.500	175	3.700	2.500	236	3.700	2.500	297	3.700	2.500
54	3.700	2.500	115	3.700	2.500	176	3.700	2.500	237	3.700	2.500	298	3.700	2.500
55	3.700	2.500	116	3.700	2.500	177	3.700	2.500	238	3.700	2.500	299	3.700	2.500
56	3.700	2.500	117	3.700	2.500	178	3.700	2.500	239	3.700	2.500	300	3.700	2.500
57	3.700	2.500	118	3.700	2.500	179	3.700	2.500	240	3.700	2.500	301	3.700	2.500
58	3.700	2.500	119	3.700	2.500	180	3.700	2.500	241	3.700	2.500	302	3.700	2.500
59	3.700	2.500	120	3.700	2.500	181	3.700	2.500	242	3.700	2.500	303	3.700	2.500
60	3.700	2.500	121	3.700	2.500	182	3.700	2.500	243	3.700	2.500	304	3.700	2.500
61	3.700	2.500	122	3.700	2.500	183	3.700	2.500	244	3.700	2.500	305	3.700	2.500
62	3.700	2.500	123	3.700	2.500	184	3.700	2.500	245	3.700	2.500	306	3.700	2.500
63	3.700	2.500	124	3.700	2.500	185	3.700	2.500	246	3.700	2.500	307	3.700	2.500
64	3.700	2.500	125	3.700	2.500	186	3.700	2.500	247	3.700	2.500	308	3.700	2.500
65	3.700	2.500	126	3.700	2.500	187	3.700	2.500	248	3.700	2.500	309	3.700	2.500
66	3.700	2.500	127	3.700	2.500	188	3.700	2.500	249	3.700	2.500	310	3.700	2.500
67	3.700	2.500	128	3.700	2.500	189	3.700	2.500	250	3.700	2.500	311	3.700	2.500
68	3.700	2.500	129	3.700	2.500	190	3.700	2.500	251	3.700	2.500	312	3.700	2.500
69	3.700	2.500	130	3.700	2.500	191	3.700	2.500	252	3.700	2.500	313	3.700	2.500
70	3.700	2.500	131	3.700	2.500	192	3.700	2.500	253	3.700	2.500	314	3.700	2.500



Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
315	3.700	2.500	376	3.700	2.500	437	3.700	2.500	498	3.700	2.500	559	3.700	2.500
316	3.700	2.500	377	3.700	2.500	438	3.700	2.500	499	3.700	2.500	560	3.700	2.500
317	3.700	2.500	378	3.700	2.500	439	3.700	2.500	500	3.700	2.500	561	3.700	2.500
318	3.700	2.500	379	3.700	2.500	440	3.700	2.500	501	3.700	2.500	562	3.700	2.500
319	3.700	2.500	380	3.700	2.500	441	3.700	2.500	502	3.700	2.500	563	3.700	2.500
320	3.700	2.500	381	3.700	2.500	442	3.700	2.500	503	3.700	2.500	564	3.700	2.500
321	3.700	2.500	382	3.700	2.500	443	3.700	2.500	504	3.700	2.500	565	3.700	2.500
322	3.700	2.500	383	3.700	2.500	444	3.700	2.500	505	3.700	2.500	566	3.700	2.500
323	3.700	2.500	384	3.700	2.500	445	3.700	2.500	506	3.700	2.500	567	3.700	2.500
324	3.700	2.500	385	3.700	2.500	446	3.700	2.500	507	3.700	2.500	568	3.700	2.500
325	3.700	2.500	386	3.700	2.500	447	3.700	2.500	508	3.700	2.500	569	3.700	2.500
326	3.700	2.500	387	3.700	2.500	448	3.700	2.500	509	3.700	2.500	570	3.700	2.500
327	3.700	2.500	388	3.700	2.500	449	3.700	2.500	510	3.700	2.500	571	3.700	2.500
328	3.700	2.500	389	3.700	2.500	450	3.700	2.500	511	3.700	2.500	572	3.700	2.500
329	3.700	2.500	390	3.700	2.500	451	3.700	2.500	512	3.700	2.500	573	3.700	2.500
330	3.700	2.500	391	3.700	2.500	452	3.700	2.500	513	3.700	2.500	574	3.700	2.500
331	3.700	2.500	392	3.700	2.500	453	3.700	2.500	514	3.700	2.500	575	3.700	2.500
332	3.700	2.500	393	3.700	2.500	454	3.700	2.500	515	3.700	2.500	576	3.700	2.500
333	3.700	2.500	394	3.700	2.500	455	3.700	2.500	516	3.700	2.500	577	3.700	2.500
334	3.700	2.500	395	3.700	2.500	456	3.700	2.500	517	3.700	2.500	578	3.700	2.500
335	3.700	2.500	396	3.700	2.500	457	3.700	2.500	518	3.700	2.500	579	3.700	2.500
336	3.700	2.500	397	3.700	2.500	458	3.700	2.500	519	3.700	2.500	580	3.700	2.500
337	3.700	2.500	398	3.700	2.500	459	3.700	2.500	520	3.700	2.500	581	3.700	2.500
338	3.700	2.500	399	3.700	2.500	460	3.700	2.500	521	3.700	2.500	582	3.700	2.500
339	3.700	2.500	400	3.700	2.500	461	3.700	2.500	522	3.700	2.500	583	3.700	2.500
340	3.700	2.500	401	3.700	2.500	462	3.700	2.500	523	3.700	2.500	584	3.700	2.500
341	3.700	2.500	402	3.700	2.500	463	3.700	2.500	524	3.700	2.500	585	3.700	2.500
342	3.700	2.500	403	3.700	2.500	464	3.700	2.500	525	3.700	2.500	586	3.700	2.500
343	3.700	2.500	404	3.700	2.500	465	3.700	2.500	526	3.700	2.500	587	3.700	2.500
344	3.700	2.500	405	3.700	2.500	466	3.700	2.500	527	3.700	2.500	588	3.700	2.500
345	3.700	2.500	406	3.700	2.500	467	3.700	2.500	528	3.700	2.500	589	3.700	2.500
346	3.700	2.500	407	3.700	2.500	468	3.700	2.500	529	3.700	2.500	590	3.700	2.500
347	3.700	2.500	408	3.700	2.500	469	3.700	2.500	530	3.700	2.500	591	3.700	2.500
348	3.700	2.500	409	3.700	2.500	470	3.700	2.500	531	3.700	2.500	592	3.700	2.500
349	3.700	2.500	410	3.700	2.500	471	3.700	2.500	532	3.700	2.500	593	3.700	2.500
350	3.700	2.500	411	3.700	2.500	472	3.700	2.500	533	3.700	2.500	594	3.700	2.500
351	3.700	2.500	412	3.700	2.500	473	3.700	2.500	534	3.700	2.500	595	3.700	2.500
352	3.700	2.500	413	3.700	2.500	474	3.700	2.500	535	3.700	2.500	596	3.700	2.500
353	3.700	2.500	414	3.700	2.500	475	3.700	2.500	536	3.700	2.500	597	3.700	2.500
354	3.700	2.500	415	3.700	2.500	476	3.700	2.500	537	3.700	2.500	598	3.700	2.500
355	3.700	2.500	416	3.700	2.500	477	3.700	2.500	538	3.700	2.500	599	3.700	2.500
356	3.700	2.500	417	3.700	2.500	478	3.700	2.500	539	3.700	2.500	600	3.700	2.500
357	3.700	2.500	418	3.700	2.500	479	3.700	2.500	540	3.700	2.500	601	3.700	2.500
358	3.700	2.500	419	3.700	2.500	480	3.700	2.500	541	3.700	2.500	602	3.700	2.500
359	3.700	2.500	420	3.700	2.500	481	3.700	2.500	542	3.700	2.500	603	3.700	2.500
360	3.700	2.500	421	3.700	2.500	482	3.700	2.500	543	3.700	2.500	604	3.700	2.500
361	3.700	2.500	422	3.700	2.500	483	3.700	2.500	544	3.700	2.500	605	3.700	2.500
362	3.700	2.500	423	3.700	2.500	484	3.700	2.500	545	3.700	2.500	606	3.700	2.500
363	3.700	2.500	424	3.700	2.500	485	3.700	2.500	546	3.700	2.500	607	3.700	2.500
364	3.700	2.500	425	3.700	2.500	486	3.700	2.500	547	3.700	2.500	608	3.700	2.500
365	3.700	2.500	426	3.700	2.500	487	3.700	2.500	548	3.700	2.500	609	3.700	2.500
366	3.700	2.500	427	3.700	2.500	488	3.700	2.500	549	3.700	2.500	610	3.700	2.500
367	3.700	2.500	428	3.700	2.500	489	3.700	2.500	550	3.700	2.500	611	3.700	2.500
368	3.700	2.500	429	3.700	2.500	490	3.700	2.500	551	3.700	2.500	612	3.700	2.500
369	3.700	2.500	430	3.700	2.500	491	3.700	2.500	552	3.700	2.500	613	3.700	2.500
370	3.700	2.500	431	3.700	2.500	492	3.700	2.500	553	3.700	2.500	614	3.700	2.500
371	3.700	2.500	432	3.700	2.500	493	3.700	2.500	554	3.700	2.500	615	3.700	2.500
372	3.700	2.500	433	3.700	2.500	494	3.700	2.500	555	3.700	2.500	616	3.700	2.500
373	3.700	2.500	434	3.700	2.500	495	3.700	2.500	556	3.700	2.500	617	3.700	2.500
374	3.700	2.500	435	3.700	2.500	496	3.700	2.500	557	3.700	2.500	618	3.700	2.500
375	3.700	2.500	436	3.700	2.500	497	3.700	2.500	558	3.700	2.500	619	3.700	2.500

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
100YR + 10% (opt2)
3.7mOD Surcharged(300mm)

Date 29th Nov 2017
File_Y17205 - Option 2 - SWS Surcharged (+3.7m) 300pip...

Designed By SW
Checked By



Micro Drainage Simulation W.11.2

Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
620	3.700	2.500	681	3.700	2.500	742	3.700	2.500	803	3.700	2.500	864	3.700	2.500
621	3.700	2.500	682	3.700	2.500	743	3.700	2.500	804	3.700	2.500	865	3.700	2.500
622	3.700	2.500	683	3.700	2.500	744	3.700	2.500	805	3.700	2.500	866	3.700	2.500
623	3.700	2.500	684	3.700	2.500	745	3.700	2.500	806	3.700	2.500	867	3.700	2.500
624	3.700	2.500	685	3.700	2.500	746	3.700	2.500	807	3.700	2.500	868	3.700	2.500
625	3.700	2.500	686	3.700	2.500	747	3.700	2.500	808	3.700	2.500	869	3.700	2.500
626	3.700	2.500	687	3.700	2.500	748	3.700	2.500	809	3.700	2.500	870	3.700	2.500
627	3.700	2.500	688	3.700	2.500	749	3.700	2.500	810	3.700	2.500	871	3.700	2.500
628	3.700	2.500	689	3.700	2.500	750	3.700	2.500	811	3.700	2.500	872	3.700	2.500
629	3.700	2.500	690	3.700	2.500	751	3.700	2.500	812	3.700	2.500	873	3.700	2.500
630	3.700	2.500	691	3.700	2.500	752	3.700	2.500	813	3.700	2.500	874	3.700	2.500
631	3.700	2.500	692	3.700	2.500	753	3.700	2.500	814	3.700	2.500	875	3.700	2.500
632	3.700	2.500	693	3.700	2.500	754	3.700	2.500	815	3.700	2.500	876	3.700	2.500
633	3.700	2.500	694	3.700	2.500	755	3.700	2.500	816	3.700	2.500	877	3.700	2.500
634	3.700	2.500	695	3.700	2.500	756	3.700	2.500	817	3.700	2.500	878	3.700	2.500
635	3.700	2.500	696	3.700	2.500	757	3.700	2.500	818	3.700	2.500	879	3.700	2.500
636	3.700	2.500	697	3.700	2.500	758	3.700	2.500	819	3.700	2.500	880	3.700	2.500
637	3.700	2.500	698	3.700	2.500	759	3.700	2.500	820	3.700	2.500	881	3.700	2.500
638	3.700	2.500	699	3.700	2.500	760	3.700	2.500	821	3.700	2.500	882	3.700	2.500
639	3.700	2.500	700	3.700	2.500	761	3.700	2.500	822	3.700	2.500	883	3.700	2.500
640	3.700	2.500	701	3.700	2.500	762	3.700	2.500	823	3.700	2.500	884	3.700	2.500
641	3.700	2.500	702	3.700	2.500	763	3.700	2.500	824	3.700	2.500	885	3.700	2.500
642	3.700	2.500	703	3.700	2.500	764	3.700	2.500	825	3.700	2.500	886	3.700	2.500
643	3.700	2.500	704	3.700	2.500	765	3.700	2.500	826	3.700	2.500	887	3.700	2.500
644	3.700	2.500	705	3.700	2.500	766	3.700	2.500	827	3.700	2.500	888	3.700	2.500
645	3.700	2.500	706	3.700	2.500	767	3.700	2.500	828	3.700	2.500	889	3.700	2.500
646	3.700	2.500	707	3.700	2.500	768	3.700	2.500	829	3.700	2.500	890	3.700	2.500
647	3.700	2.500	708	3.700	2.500	769	3.700	2.500	830	3.700	2.500	891	3.700	2.500
648	3.700	2.500	709	3.700	2.500	770	3.700	2.500	831	3.700	2.500	892	3.700	2.500
649	3.700	2.500	710	3.700	2.500	771	3.700	2.500	832	3.700	2.500	893	3.700	2.500
650	3.700	2.500	711	3.700	2.500	772	3.700	2.500	833	3.700	2.500	894	3.700	2.500
651	3.700	2.500	712	3.700	2.500	773	3.700	2.500	834	3.700	2.500	895	3.700	2.500
652	3.700	2.500	713	3.700	2.500	774	3.700	2.500	835	3.700	2.500	896	3.700	2.500
653	3.700	2.500	714	3.700	2.500	775	3.700	2.500	836	3.700	2.500	897	3.700	2.500
654	3.700	2.500	715	3.700	2.500	776	3.700	2.500	837	3.700	2.500	898	3.700	2.500
655	3.700	2.500	716	3.700	2.500	777	3.700	2.500	838	3.700	2.500	899	3.700	2.500
656	3.700	2.500	717	3.700	2.500	778	3.700	2.500	839	3.700	2.500	900	3.700	2.500
657	3.700	2.500	718	3.700	2.500	779	3.700	2.500	840	3.700	2.500	901	3.700	2.500
658	3.700	2.500	719	3.700	2.500	780	3.700	2.500	841	3.700	2.500	902	3.700	2.500
659	3.700	2.500	720	3.700	2.500	781	3.700	2.500	842	3.700	2.500	903	3.700	2.500
660	3.700	2.500	721	3.700	2.500	782	3.700	2.500	843	3.700	2.500	904	3.700	2.500
661	3.700	2.500	722	3.700	2.500	783	3.700	2.500	844	3.700	2.500	905	3.700	2.500
662	3.700	2.500	723	3.700	2.500	784	3.700	2.500	845	3.700	2.500	906	3.700	2.500
663	3.700	2.500	724	3.700	2.500	785	3.700	2.500	846	3.700	2.500	907	3.700	2.500
664	3.700	2.500	725	3.700	2.500	786	3.700	2.500	847	3.700	2.500	908	3.700	2.500
665	3.700	2.500	726	3.700	2.500	787	3.700	2.500	848	3.700	2.500	909	3.700	2.500
666	3.700	2.500	727	3.700	2.500	788	3.700	2.500	849	3.700	2.500	910	3.700	2.500
667	3.700	2.500	728	3.700	2.500	789	3.700	2.500	850	3.700	2.500	911	3.700	2.500
668	3.700	2.500	729	3.700	2.500	790	3.700	2.500	851	3.700	2.500	912	3.700	2.500
669	3.700	2.500	730	3.700	2.500	791	3.700	2.500	852	3.700	2.500	913	3.700	2.500
670	3.700	2.500	731	3.700	2.500	792	3.700	2.500	853	3.700	2.500	914	3.700	2.500
671	3.700	2.500	732	3.700	2.500	793	3.700	2.500	854	3.700	2.500	915	3.700	2.500
672	3.700	2.500	733	3.700	2.500	794	3.700	2.500	855	3.700	2.500	916	3.700	2.500
673	3.700	2.500	734	3.700	2.500	795	3.700	2.500	856	3.700	2.500	917	3.700	2.500
674	3.700	2.500	735	3.700	2.500	796	3.700	2.500	857	3.700	2.500	918	3.700	2.500
675	3.700	2.500	736	3.700	2.500	797	3.700	2.500	858	3.700	2.500	919	3.700	2.500
676	3.700	2.500	737	3.700	2.500	798	3.700	2.500	859	3.700	2.500	920	3.700	2.500
677	3.700	2.500	738	3.700	2.500	799	3.700	2.500	860	3.700	2.500	921	3.700	2.500
678	3.700	2.500	739	3.700	2.500	800	3.700	2.500	861	3.700	2.500	922	3.700	2.500
679	3.700	2.500	740	3.700	2.500	801	3.700	2.500	862	3.700	2.500	923	3.700	2.500
680	3.700	2.500	741	3.700	2.500	802	3.700	2.500	863	3.700	2.500	924	3.700	2.500

Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
925	3.700	2.500	986	3.700	2.500	1047	3.700	2.500	1108	3.700	2.500	1169	3.700	2.500
926	3.700	2.500	987	3.700	2.500	1048	3.700	2.500	1109	3.700	2.500	1170	3.700	2.500
927	3.700	2.500	988	3.700	2.500	1049	3.700	2.500	1110	3.700	2.500	1171	3.700	2.500
928	3.700	2.500	989	3.700	2.500	1050	3.700	2.500	1111	3.700	2.500	1172	3.700	2.500
929	3.700	2.500	990	3.700	2.500	1051	3.700	2.500	1112	3.700	2.500	1173	3.700	2.500
930	3.700	2.500	991	3.700	2.500	1052	3.700	2.500	1113	3.700	2.500	1174	3.700	2.500
931	3.700	2.500	992	3.700	2.500	1053	3.700	2.500	1114	3.700	2.500	1175	3.700	2.500
932	3.700	2.500	993	3.700	2.500	1054	3.700	2.500	1115	3.700	2.500	1176	3.700	2.500
933	3.700	2.500	994	3.700	2.500	1055	3.700	2.500	1116	3.700	2.500	1177	3.700	2.500
934	3.700	2.500	995	3.700	2.500	1056	3.700	2.500	1117	3.700	2.500	1178	3.700	2.500
935	3.700	2.500	996	3.700	2.500	1057	3.700	2.500	1118	3.700	2.500	1179	3.700	2.500
936	3.700	2.500	997	3.700	2.500	1058	3.700	2.500	1119	3.700	2.500	1180	3.700	2.500
937	3.700	2.500	998	3.700	2.500	1059	3.700	2.500	1120	3.700	2.500	1181	3.700	2.500
938	3.700	2.500	999	3.700	2.500	1060	3.700	2.500	1121	3.700	2.500	1182	3.700	2.500
939	3.700	2.500	1000	3.700	2.500	1061	3.700	2.500	1122	3.700	2.500	1183	3.700	2.500
940	3.700	2.500	1001	3.700	2.500	1062	3.700	2.500	1123	3.700	2.500	1184	3.700	2.500
941	3.700	2.500	1002	3.700	2.500	1063	3.700	2.500	1124	3.700	2.500	1185	3.700	2.500
942	3.700	2.500	1003	3.700	2.500	1064	3.700	2.500	1125	3.700	2.500	1186	3.700	2.500
943	3.700	2.500	1004	3.700	2.500	1065	3.700	2.500	1126	3.700	2.500	1187	3.700	2.500
944	3.700	2.500	1005	3.700	2.500	1066	3.700	2.500	1127	3.700	2.500	1188	3.700	2.500
945	3.700	2.500	1006	3.700	2.500	1067	3.700	2.500	1128	3.700	2.500	1189	3.700	2.500
946	3.700	2.500	1007	3.700	2.500	1068	3.700	2.500	1129	3.700	2.500	1190	3.700	2.500
947	3.700	2.500	1008	3.700	2.500	1069	3.700	2.500	1130	3.700	2.500	1191	3.700	2.500
948	3.700	2.500	1009	3.700	2.500	1070	3.700	2.500	1131	3.700	2.500	1192	3.700	2.500
949	3.700	2.500	1010	3.700	2.500	1071	3.700	2.500	1132	3.700	2.500	1193	3.700	2.500
950	3.700	2.500	1011	3.700	2.500	1072	3.700	2.500	1133	3.700	2.500	1194	3.700	2.500
951	3.700	2.500	1012	3.700	2.500	1073	3.700	2.500	1134	3.700	2.500	1195	3.700	2.500
952	3.700	2.500	1013	3.700	2.500	1074	3.700	2.500	1135	3.700	2.500	1196	3.700	2.500
953	3.700	2.500	1014	3.700	2.500	1075	3.700	2.500	1136	3.700	2.500	1197	3.700	2.500
954	3.700	2.500	1015	3.700	2.500	1076	3.700	2.500	1137	3.700	2.500	1198	3.700	2.500
955	3.700	2.500	1016	3.700	2.500	1077	3.700	2.500	1138	3.700	2.500	1199	3.700	2.500
956	3.700	2.500	1017	3.700	2.500	1078	3.700	2.500	1139	3.700	2.500	1200	3.700	2.500
957	3.700	2.500	1018	3.700	2.500	1079	3.700	2.500	1140	3.700	2.500	1201	3.700	2.500
958	3.700	2.500	1019	3.700	2.500	1080	3.700	2.500	1141	3.700	2.500	1202	3.700	2.500
959	3.700	2.500	1020	3.700	2.500	1081	3.700	2.500	1142	3.700	2.500	1203	3.700	2.500
960	3.700	2.500	1021	3.700	2.500	1082	3.700	2.500	1143	3.700	2.500	1204	3.700	2.500
961	3.700	2.500	1022	3.700	2.500	1083	3.700	2.500	1144	3.700	2.500	1205	3.700	2.500
962	3.700	2.500	1023	3.700	2.500	1084	3.700	2.500	1145	3.700	2.500	1206	3.700	2.500
963	3.700	2.500	1024	3.700	2.500	1085	3.700	2.500	1146	3.700	2.500	1207	3.700	2.500
964	3.700	2.500	1025	3.700	2.500	1086	3.700	2.500	1147	3.700	2.500	1208	3.700	2.500
965	3.700	2.500	1026	3.700	2.500	1087	3.700	2.500	1148	3.700	2.500	1209	3.700	2.500
966	3.700	2.500	1027	3.700	2.500	1088	3.700	2.500	1149	3.700	2.500	1210	3.700	2.500
967	3.700	2.500	1028	3.700	2.500	1089	3.700	2.500	1150	3.700	2.500	1211	3.700	2.500
968	3.700	2.500	1029	3.700	2.500	1090	3.700	2.500	1151	3.700	2.500	1212	3.700	2.500
969	3.700	2.500	1030	3.700	2.500	1091	3.700	2.500	1152	3.700	2.500	1213	3.700	2.500
970	3.700	2.500	1031	3.700	2.500	1092	3.700	2.500	1153	3.700	2.500	1214	3.700	2.500
971	3.700	2.500	1032	3.700	2.500	1093	3.700	2.500	1154	3.700	2.500	1215	3.700	2.500
972	3.700	2.500	1033	3.700	2.500	1094	3.700	2.500	1155	3.700	2.500	1216	3.700	2.500
973	3.700	2.500	1034	3.700	2.500	1095	3.700	2.500	1156	3.700	2.500	1217	3.700	2.500
974	3.700	2.500	1035	3.700	2.500	1096	3.700	2.500	1157	3.700	2.500	1218	3.700	2.500
975	3.700	2.500	1036	3.700	2.500	1097	3.700	2.500	1158	3.700	2.500	1219	3.700	2.500
976	3.700	2.500	1037	3.700	2.500	1098	3.700	2.500	1159	3.700	2.500	1220	3.700	2.500
977	3.700	2.500	1038	3.700	2.500	1099	3.700	2.500	1160	3.700	2.500	1221	3.700	2.500
978	3.700	2.500	1039	3.700	2.500	1100	3.700	2.500	1161	3.700	2.500	1222	3.700	2.500
979	3.700	2.500	1040	3.700	2.500	1101	3.700	2.500	1162	3.700	2.500	1223	3.700	2.500
980	3.700	2.500	1041	3.700	2.500	1102	3.700	2.500	1163	3.700	2.500	1224	3.700	2.500
981	3.700	2.500	1042	3.700	2.500	1103	3.700	2.500	1164	3.700	2.500	1225	3.700	2.500
982	3.700	2.500	1043	3.700	2.500	1104	3.700	2.500	1165	3.700	2.500	1226	3.700	2.500
983	3.700	2.500	1044	3.700	2.500	1105	3.700	2.500	1166	3.700	2.500	1227	3.700	2.500
984	3.700	2.500	1045	3.700	2.500	1106	3.700	2.500	1167	3.700	2.500	1228	3.700	2.500
985	3.700	2.500	1046	3.700	2.500	1107	3.700	2.500	1168	3.700	2.500	1229	3.700	2.500

Tramway House
32 Dartry Road
Dublin 6 Ireland

Portmarnock Sth Wetland
100YR + 10% (opt2)
3.7mOD Surcharged(300mm)

Date 29th Nov 2017
File Y17205 - Option 2 - SWS Surcharged (+3.7m) 300pip...

Designed By SW
Checked By



Micro Drainage Simulation W.11.2

Surcharged Outfalls

Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)	Time (mins)	Level (m)	Depth (m)
1230	3.700	2.500	1273	3.700	2.500	1316	3.700	2.500	1359	3.700	2.500	1402	3.700	2.500
1231	3.700	2.500	1274	3.700	2.500	1317	3.700	2.500	1360	3.700	2.500	1403	3.700	2.500
1232	3.700	2.500	1275	3.700	2.500	1318	3.700	2.500	1361	3.700	2.500	1404	3.700	2.500
1233	3.700	2.500	1276	3.700	2.500	1319	3.700	2.500	1362	3.700	2.500	1405	3.700	2.500
1234	3.700	2.500	1277	3.700	2.500	1320	3.700	2.500	1363	3.700	2.500	1406	3.700	2.500
1235	3.700	2.500	1278	3.700	2.500	1321	3.700	2.500	1364	3.700	2.500	1407	3.700	2.500
1236	3.700	2.500	1279	3.700	2.500	1322	3.700	2.500	1365	3.700	2.500	1408	3.700	2.500
1237	3.700	2.500	1280	3.700	2.500	1323	3.700	2.500	1366	3.700	2.500	1409	3.700	2.500
1238	3.700	2.500	1281	3.700	2.500	1324	3.700	2.500	1367	3.700	2.500	1410	3.700	2.500
1239	3.700	2.500	1282	3.700	2.500	1325	3.700	2.500	1368	3.700	2.500	1411	3.700	2.500
1240	3.700	2.500	1283	3.700	2.500	1326	3.700	2.500	1369	3.700	2.500	1412	3.700	2.500
1241	3.700	2.500	1284	3.700	2.500	1327	3.700	2.500	1370	3.700	2.500	1413	3.700	2.500
1242	3.700	2.500	1285	3.700	2.500	1328	3.700	2.500	1371	3.700	2.500	1414	3.700	2.500
1243	3.700	2.500	1286	3.700	2.500	1329	3.700	2.500	1372	3.700	2.500	1415	3.700	2.500
1244	3.700	2.500	1287	3.700	2.500	1330	3.700	2.500	1373	3.700	2.500	1416	3.700	2.500
1245	3.700	2.500	1288	3.700	2.500	1331	3.700	2.500	1374	3.700	2.500	1417	3.700	2.500
1246	3.700	2.500	1289	3.700	2.500	1332	3.700	2.500	1375	3.700	2.500	1418	3.700	2.500
1247	3.700	2.500	1290	3.700	2.500	1333	3.700	2.500	1376	3.700	2.500	1419	3.700	2.500
1248	3.700	2.500	1291	3.700	2.500	1334	3.700	2.500	1377	3.700	2.500	1420	3.700	2.500
1249	3.700	2.500	1292	3.700	2.500	1335	3.700	2.500	1378	3.700	2.500	1421	3.700	2.500
1250	3.700	2.500	1293	3.700	2.500	1336	3.700	2.500	1379	3.700	2.500	1422	3.700	2.500
1251	3.700	2.500	1294	3.700	2.500	1337	3.700	2.500	1380	3.700	2.500	1423	3.700	2.500
1252	3.700	2.500	1295	3.700	2.500	1338	3.700	2.500	1381	3.700	2.500	1424	3.700	2.500
1253	3.700	2.500	1296	3.700	2.500	1339	3.700	2.500	1382	3.700	2.500	1425	3.700	2.500
1254	3.700	2.500	1297	3.700	2.500	1340	3.700	2.500	1383	3.700	2.500	1426	3.700	2.500
1255	3.700	2.500	1298	3.700	2.500	1341	3.700	2.500	1384	3.700	2.500	1427	3.700	2.500
1256	3.700	2.500	1299	3.700	2.500	1342	3.700	2.500	1385	3.700	2.500	1428	3.700	2.500
1257	3.700	2.500	1300	3.700	2.500	1343	3.700	2.500	1386	3.700	2.500	1429	3.700	2.500
1258	3.700	2.500	1301	3.700	2.500	1344	3.700	2.500	1387	3.700	2.500	1430	3.700	2.500
1259	3.700	2.500	1302	3.700	2.500	1345	3.700	2.500	1388	3.700	2.500	1431	3.700	2.500
1260	3.700	2.500	1303	3.700	2.500	1346	3.700	2.500	1389	3.700	2.500	1432	3.700	2.500
1261	3.700	2.500	1304	3.700	2.500	1347	3.700	2.500	1390	3.700	2.500	1433	3.700	2.500
1262	3.700	2.500	1305	3.700	2.500	1348	3.700	2.500	1391	3.700	2.500	1434	3.700	2.500
1263	3.700	2.500	1306	3.700	2.500	1349	3.700	2.500	1392	3.700	2.500	1435	3.700	2.500
1264	3.700	2.500	1307	3.700	2.500	1350	3.700	2.500	1393	3.700	2.500	1436	3.700	2.500
1265	3.700	2.500	1308	3.700	2.500	1351	3.700	2.500	1394	3.700	2.500	1437	3.700	2.500
1266	3.700	2.500	1309	3.700	2.500	1352	3.700	2.500	1395	3.700	2.500	1438	3.700	2.500
1267	3.700	2.500	1310	3.700	2.500	1353	3.700	2.500	1396	3.700	2.500	1439	3.700	2.500
1268	3.700	2.500	1311	3.700	2.500	1354	3.700	2.500	1397	3.700	2.500	1440	3.700	2.500
1269	3.700	2.500	1312	3.700	2.500	1355	3.700	2.500	1398	3.700	2.500			
1270	3.700	2.500	1313	3.700	2.500	1356	3.700	2.500	1399	3.700	2.500			
1271	3.700	2.500	1314	3.700	2.500	1357	3.700	2.500	1400	3.700	2.500			
1272	3.700	2.500	1315	3.700	2.500	1358	3.700	2.500	1401	3.700	2.500			

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm) 300 Inertia Status OFF
DTS Status ON Analysis Time Step Fine
DVD Status OFF

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 100
Climate Change (%) 10

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
1.000	30 Winter	100	10%	1	100/15 Summer			
1.001	30 Winter	100	10%	1	100/15 Summer			
1.002	30 Winter	100	10%	1	100/15 Summer			
1.003	30 Winter	100	10%	1	100/15 Summer			
1.004	30 Winter	100	10%	1	100/15 Summer			
1.005	30 Winter	100	10%	1	100/15 Summer			
2.000	30 Winter	100	10%	1				
2.001	30 Winter	100	10%	1	100/30 Summer			
2.002	30 Winter	100	10%	1	100/15 Summer			
2.003	30 Winter	100	10%	1	100/15 Summer			
2.004	30 Winter	100	10%	1	100/15 Summer			
1.006	30 Winter	100	10%	1	100/15 Summer			
1.007	30 Winter	100	10%	1	100/15 Summer			
1.008	30 Winter	100	10%	1	100/15 Summer			
1.009	30 Winter	100	10%	1	100/15 Summer			
1.010	30 Winter	100	10%	1	100/15 Summer			
1.011	30 Winter	100	10%	1	100/15 Summer			
1.012	30 Winter	100	10%	1	100/15 Summer			
1.013	30 Winter	100	10%	1	100/15 Summer			
3.000	30 Winter	100	10%	1				
3.001	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.000	11.746	0.751	0.000	0.33	0.0	13.1	SURCH'ED
	1.001	11.730	0.975	0.000	0.56	0.0	22.8	FLD RISK
	1.002	11.699	1.169	0.000	0.54	0.0	34.3	FLD RISK
	1.003	11.674	1.274	0.000	0.71	0.0	43.1	FLD RISK
	1.004	11.651	1.331	0.000	0.77	0.0	48.4	FLD RISK
	1.005	11.617	1.435	0.000	0.91	0.0	53.9	SURCH'ED
	2.000	11.679	-0.016	0.000	0.28	0.0	15.1	O K
	2.001	11.664	0.249	0.000	0.36	0.0	18.9	SURCH'ED
	2.002	11.649	0.464	0.000	0.43	0.0	21.1	SURCH'ED
	2.003	11.635	0.600	0.000	0.49	0.0	20.7	SURCH'ED
	2.004	11.627	0.682	0.000	0.69	0.0	31.6	SURCH'ED
	1.006	11.597	1.468	0.000	1.20	0.0	79.1	SURCH'ED
	1.007	11.289	1.429	0.000	1.82	0.0	84.6	SURCH'ED
	1.008	11.210	1.380	0.000	1.61	0.0	98.9	SURCH'ED
	1.009	10.811	1.146	0.000	1.30	0.0	127.0	SURCH'ED
	1.010	10.547	1.042	0.000	1.62	0.0	134.2	SURCH'ED
	1.011	10.430	0.955	0.000	1.55	0.0	157.1	SURCH'ED
	1.012	10.050	0.735	0.000	1.72	0.0	159.1	SURCH'ED
	1.013	9.885	0.620	0.000	1.99	0.0	162.5	SURCH'ED
	3.000	9.782	-0.138	0.000	0.36	0.0	145.8	O K
	3.001	9.750	0.200	0.000	0.33	0.0	122.5	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
3.002	30 Winter	100	10%	1	100/15 Summer			
1.014	30 Winter	100	10%	1	100/15 Summer			
1.015	30 Winter	100	10%	1	100/15 Summer			
4.000	15 Winter	100	10%	1	100/15 Summer			
4.001	15 Winter	100	10%	1	100/15 Summer			
4.002	15 Winter	100	10%	1	100/15 Summer			
4.003	15 Winter	100	10%	1	100/15 Summer			
4.004	15 Winter	100	10%	1	100/15 Summer			
5.000	15 Winter	100	10%	1	100/15 Summer			
5.001	15 Winter	100	10%	1	100/15 Summer			
4.005	30 Winter	100	10%	1	100/15 Summer			
6.000	30 Winter	100	10%	1	100/15 Summer	100/30 Summer		
6.001	30 Winter	100	10%	1	100/15 Summer			
7.000	30 Winter	100	10%	1	100/15 Summer			
6.002	30 Winter	100	10%	1	100/15 Summer			
4.006	30 Winter	100	10%	1	100/15 Summer			
4.007	30 Winter	100	10%	1	100/15 Summer			
8.000	15 Winter	100	10%	1	100/15 Summer			
8.001	15 Winter	100	10%	1	100/15 Summer			
8.002	15 Winter	100	10%	1	100/15 Summer			
8.003	15 Winter	100	10%	1	100/15 Summer			
4.008	30 Winter	100	10%	1	100/15 Summer			
1.016	30 Winter	100	10%	1	100/15 Summer			
1.017	30 Winter	100	10%	1	100/15 Summer			
1.018	30 Winter	100	10%	1	100/15 Summer			
9.000	15 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	3.002	9.723	0.323	0.000	0.55	0.0	121.3	SURCH'ED
	1.014	9.714	0.474	0.000	1.49	0.0	294.1	SURCH'ED
	1.015	9.267	0.227	0.000	2.78	0.0	296.6	SURCH'ED
	4.000	11.568	0.493	0.000	0.98	0.0	40.0	SURCH'ED
	4.001	11.357	0.692	0.000	1.20	0.0	48.3	SURCH'ED
	4.002	11.017	0.605	0.000	1.03	0.0	53.7	SURCH'ED
	4.003	10.764	0.589	0.000	1.11	0.0	61.6	SURCH'ED
	4.004	10.074	0.457	0.000	1.47	0.0	74.5	SURCH'ED
	5.000	9.902	0.417	0.000	0.46	0.0	15.3	SURCH'ED
	5.001	9.870	0.560	0.000	0.93	0.0	56.5	SURCH'ED
	4.005	9.667	0.593	0.000	1.32	0.0	139.2	SURCH'ED
3	6.000	8.705	1.145	46.340	1.10	0.0	211.9	FLOOD
	6.001	8.812	1.292	0.000	0.92	0.0	223.4	FLD RISK
	7.000	9.068	0.533	0.000	1.06	0.0	56.9	SURCH'ED
	6.002	8.912	1.462	0.000	1.03	0.0	244.8	SURCH'ED
	4.006	8.967	1.577	0.000	1.49	0.0	345.9	SURCH'ED
	4.007	8.945	1.625	0.000	1.36	0.0	343.3	SURCH'ED
	8.000	10.972	0.227	0.000	0.63	0.0	26.0	SURCH'ED
	8.001	10.899	0.409	0.000	0.80	0.0	31.2	SURCH'ED
	8.002	10.829	0.454	0.000	1.17	0.0	55.7	SURCH'ED
	8.003	10.174	0.257	0.000	1.24	0.0	70.5	SURCH'ED
	4.008	8.901	1.661	0.000	1.68	0.0	397.8	SURCH'ED
	1.016	8.768	2.218	0.000	1.14	0.0	668.6	SURCH'ED
	1.017	8.627	2.137	0.000	2.50	0.0	669.4	SURCH'ED
	1.018	8.471	2.011	0.000	2.10	0.0	674.6	SURCH'ED
	9.000	9.337	0.177	0.000	1.10	0.0	110.3	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
1.019	30 Winter	100	10%	1	100/15 Summer			
1.020	30 Winter	100	10%	1	100/15 Summer			
10.000	15 Winter	100	10%	1	100/15 Summer			
11.000	15 Winter	100	10%	1	100/15 Summer			
10.001	15 Winter	100	10%	1	100/15 Summer			
10.002	15 Winter	100	10%	1	100/15 Summer			
10.003	15 Winter	100	10%	1	100/15 Summer			
10.004	15 Winter	100	10%	1	100/15 Summer			
10.005	30 Winter	100	10%	1	100/15 Summer			
10.006	30 Winter	100	10%	1	100/15 Summer			
10.007	30 Winter	100	10%	1	100/15 Summer			
10.008	30 Winter	100	10%	1	100/15 Summer			
1.021	30 Winter	100	10%	1	100/15 Summer			
1.022	30 Winter	100	10%	1	100/15 Summer			
12.000	15 Winter	100	10%	1	100/15 Summer			
12.001	30 Winter	100	10%	1	100/15 Summer			
13.000	15 Winter	100	10%	1	100/15 Summer			
13.001	15 Winter	100	10%	1	100/15 Summer			
13.002	15 Winter	100	10%	1	100/15 Summer			
13.003	15 Winter	100	10%	1	100/15 Summer			
13.004	15 Winter	100	10%	1	100/15 Summer			
13.005	15 Winter	100	10%	1	100/15 Summer			
13.006	15 Winter	100	10%	1	100/30 Summer			
14.000	15 Winter	100	10%	1	100/15 Summer			
13.007	15 Winter	100	10%	1	100/15 Summer			
13.008	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	1.019	8.304	1.884	0.000	2.87	0.0	737.3	SURCH'ED
	1.020	8.100	1.710	0.000	2.78	0.0	735.1	SURCH'ED
	10.000	8.494	0.264	0.000	0.50	0.0	31.5	SURCH'ED
	11.000	8.468	0.328	0.000	0.17	0.0	10.1	FLD RISK
	10.001	8.459	0.409	0.000	0.79	0.0	42.3	SURCH'ED
	10.002	8.420	0.420	0.000	0.96	0.0	57.1	SURCH'ED
	10.003	8.357	0.427	0.000	1.26	0.0	73.4	SURCH'ED
	10.004	8.247	0.387	0.000	1.56	0.0	89.5	SURCH'ED
	10.005	8.153	0.363	0.000	1.15	0.0	97.6	SURCH'ED
	10.006	8.062	0.357	0.000	1.18	0.0	110.7	SURCH'ED
	10.007	8.017	0.382	0.000	1.03	0.0	106.5	SURCH'ED
	10.008	7.915	0.470	0.000	1.53	0.0	103.0	SURCH'ED
	1.021	7.888	1.528	0.000	1.46	0.0	830.1	SURCH'ED
	1.022	7.631	1.381	0.000	1.35	0.0	842.9	SURCH'ED
	12.000	12.475	0.500	0.000	0.84	0.0	33.7	SURCH'ED
	12.001	12.382	0.697	0.000	0.98	0.0	40.2	SURCH'ED
	13.000	14.100	0.345	0.000	0.38	0.0	13.7	SURCH'ED
	13.001	14.080	0.415	0.000	0.64	0.0	23.1	SURCH'ED
	13.002	14.031	0.516	0.000	0.82	0.0	33.2	SURCH'ED
	13.003	13.861	0.596	0.000	1.66	0.0	59.1	SURCH'ED
	13.004	13.647	0.462	0.000	1.66	0.0	63.2	SURCH'ED
	13.005	13.398	0.313	0.000	1.65	0.0	63.7	SURCH'ED
	13.006	13.066	0.141	0.000	0.88	0.0	61.3	SURCH'ED
	14.000	13.210	0.535	0.000	1.25	0.0	65.9	SURCH'ED
	13.007	12.401	0.426	0.000	1.06	0.0	131.7	SURCH'ED
	13.008	12.345	0.470	0.000	0.46	0.0	116.6	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
13.009	30 Winter	100	10%	1	100/15 Summer			
12.002	30 Winter	100	10%	1	100/15 Summer			
12.003	30 Winter	100	10%	1	100/15 Summer			
12.004	30 Winter	100	10%	1	100/15 Summer			
12.005	30 Winter	100	10%	1	100/15 Summer			
15.000	15 Winter	100	10%	1	100/15 Summer			
15.001	15 Winter	100	10%	1	100/15 Summer			
16.000	15 Winter	100	10%	1	100/15 Summer			
15.002	15 Winter	100	10%	1	100/15 Summer			
15.003	15 Winter	100	10%	1	100/15 Summer			
15.004	15 Winter	100	10%	1	100/15 Summer			
15.005	30 Winter	100	10%	1	100/30 Summer			
15.006	30 Winter	100	10%	1	100/15 Summer			
12.006	30 Winter	100	10%	1	100/15 Summer			
17.000	30 Winter	100	10%	1	100/15 Summer			
12.007	30 Winter	100	10%	1	100/15 Summer			
18.000	15 Winter	100	10%	1	100/15 Summer			
18.001	15 Winter	100	10%	1	100/15 Winter			
18.002	30 Winter	100	10%	1	100/15 Summer			
18.003	30 Winter	100	10%	1	100/15 Summer			
12.008	30 Winter	100	10%	1	100/15 Summer			
12.009	30 Winter	100	10%	1	100/15 Summer			
12.010	30 Winter	100	10%	1	100/15 Summer			
12.011	30 Winter	100	10%	1	100/15 Summer			
12.012	30 Winter	100	10%	1	100/15 Summer			
19.000	15 Summer	100	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Over-flow (l/s)	Pipe Flow (l/s)	Status
	13.009	12.280	0.825	0.000	0.82	0.0	110.9	SURCH'ED
	12.002	12.242	0.907	0.000	1.27	0.0	168.4	SURCH'ED
	12.003	11.850	0.835	0.000	1.42	0.0	152.2	SURCH'ED
	12.004	11.706	0.761	0.000	0.97	0.0	159.0	SURCH'ED
	12.005	11.463	0.798	0.000	1.11	0.0	176.1	SURCH'ED
	15.000	12.625	0.220	0.000	0.99	0.0	37.6	SURCH'ED
	15.001	12.474	0.309	0.000	0.91	0.0	36.0	SURCH'ED
	16.000	13.167	0.392	0.000	1.06	0.0	61.4	SURCH'ED
	15.002	12.346	0.266	0.000	0.92	0.0	102.4	SURCH'ED
	15.003	12.148	0.298	0.000	1.53	0.0	108.4	SURCH'ED
	15.004	11.963	0.193	0.000	1.16	0.0	138.1	SURCH'ED
	15.005	11.488	0.213	0.000	0.75	0.0	150.1	SURCH'ED
	15.006	11.375	0.450	0.000	0.75	0.0	143.1	SURCH'ED
	12.006	11.264	0.724	0.000	0.76	0.0	280.0	SURCH'ED
	17.000	10.945	0.850	0.000	0.15	0.0	9.4	SURCH'ED
	12.007	10.941	0.961	0.000	1.29	0.0	289.9	FLD RISK
	18.000	11.440	0.095	0.000	1.13	0.0	49.4	SURCH'ED
	18.001	11.131	0.071	0.000	0.83	0.0	110.2	SURCH'ED
	18.002	10.944	0.499	0.000	0.55	0.0	96.9	SURCH'ED
	18.003	10.906	0.661	0.000	0.87	0.0	134.1	SURCH'ED
	12.008	10.694	0.874	0.000	1.12	0.0	386.0	SURCH'ED
	12.009	10.048	0.738	0.000	1.04	0.0	398.4	SURCH'ED
	12.010	9.677	0.712	0.000	1.46	0.0	404.2	SURCH'ED
	12.011	9.401	0.566	0.000	1.64	0.0	407.9	SURCH'ED
	12.012	9.120	0.365	0.000	1.64	0.0	407.9	SURCH'ED
	19.000	8.944	-0.416	0.000	0.02	0.0	6.6	O K



Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
12.013	30 Winter	100	10%	1	100/15 Summer			
12.014	30 Winter	100	10%	1	100/30 Summer			
12.015	30 Winter	100	10%	1	100/15 Summer			
12.016	30 Winter	100	10%	1	100/15 Summer			
12.017	30 Winter	100	10%	1	100/15 Summer			
1.023	30 Winter	100	10%	1	100/15 Summer			
20.000	15 Winter	100	10%	1	100/15 Summer			
20.001	15 Winter	100	10%	1	100/15 Summer			
20.002	15 Winter	100	10%	1	100/15 Summer			
20.003	15 Winter	100	10%	1	100/15 Summer			
20.004	15 Winter	100	10%	1	100/15 Summer			
20.005	15 Winter	100	10%	1	100/15 Summer			
21.000	15 Winter	100	10%	1	100/15 Summer			
20.006	15 Winter	100	10%	1	100/15 Summer			
1.024	30 Winter	100	10%	1	100/15 Summer			
22.000	15 Winter	100	10%	1	100/15 Summer			
1.025	30 Winter	100	10%	1	100/15 Summer			
23.000	15 Summer	100	10%	1				
1.026	30 Winter	100	10%	1	100/15 Summer			
1.027	30 Winter	100	10%	1	100/15 Summer			
1.028	30 Winter	100	10%	1	100/15 Summer			
1.029	30 Winter	100	10%	1				
1.030	30 Winter	100	10%	1				
24.000	15 Summer	100	10%	1				
24.001	15 Winter	100	10%	1	100/15 Summer			
25.000	15 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	12.013	8.841	0.176	0.000	1.20	0.0	413.1	SURCH'ED
	12.014	8.553	0.088	0.000	0.87	0.0	416.6	SURCH'ED
	12.015	8.259	0.184	0.000	1.05	0.0	419.5	SURCH'ED
	12.016	7.959	0.154	0.000	1.02	0.0	421.7	SURCH'ED
	12.017	7.612	0.137	0.000	1.47	0.0	422.5	SURCH'ED
	1.023	7.267	1.227	0.000	1.83	0.0	1260.9	SURCH'ED
	20.000	9.440	0.075	0.000	0.48	0.0	26.0	SURCH'ED
	20.001	9.391	0.426	0.000	0.65	0.0	34.0	SURCH'ED
	20.002	9.302	0.587	0.000	0.90	0.0	62.3	SURCH'ED
	20.003	8.558	0.733	0.000	1.68	0.0	81.2	SURCH'ED
	20.004	7.679	0.169	0.000	0.92	0.0	93.3	SURCH'ED
	20.005	7.415	0.215	0.000	1.52	0.0	93.3	SURCH'ED
	21.000	8.349	0.704	0.000	1.46	0.0	59.7	SURCH'ED
	20.006	7.276	0.116	0.000	1.23	0.0	154.1	SURCH'ED
	1.024	6.955	0.965	0.000	2.08	0.0	1381.0	SURCH'ED
	22.000	7.289	0.354	0.000	1.25	0.0	56.2	SURCH'ED
	1.025	6.585	0.645	0.000	2.31	0.0	1398.7	SURCH'ED
	23.000	6.537	-0.198	0.000	0.03	0.0	2.5	O K
	1.026	6.203	0.303	0.000	2.89	0.0	1400.4	SURCH'ED
	1.027	6.111	0.221	0.000	2.21	0.0	1400.4	SURCH'ED
	1.028	5.904	0.054	0.000	2.12	0.0	1401.5	SURCH'ED
	1.029	5.065	-0.225	0.000	0.97	0.0	1403.3	O K
	1.030	4.163	-0.177	0.000	0.68	0.0	1422.8	O K
	24.000	7.099	-0.136	0.000	0.33	0.0	24.3	O K
	24.001	7.058	0.243	0.000	0.58	0.0	43.3	SURCH'ED
	25.000	6.976	0.651	0.000	0.27	0.0	9.9	SURCH'ED

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
24.002	15 Winter	100	10%	1	100/15 Summer			
26.000	15 Winter	100	10%	1	100/15 Summer			
26.001	15 Winter	100	10%	1	100/15 Summer			
26.002	15 Winter	100	10%	1	100/15 Summer			
24.003	15 Winter	100	10%	1	100/15 Summer			
27.000	15 Summer	100	10%	1				
27.001	15 Summer	100	10%	1				
27.002	15 Winter	100	10%	1				
27.003	15 Winter	100	10%	1	100/15 Summer			
24.004	15 Winter	100	10%	1	100/15 Summer			
24.005	15 Winter	100	10%	1	100/15 Summer			
28.000	15 Summer	100	10%	1				
28.001	15 Summer	100	10%	1				
28.002	15 Summer	100	10%	1				
24.006	1440 Winter	100	10%	1	100/30 Summer			
24.007	1440 Winter	100	10%	1	100/30 Summer			
24.008	1440 Winter	100	10%	1	100/30 Summer			
24.009	1440 Winter	100	10%	1	100/30 Summer			
24.010	1440 Winter	100	10%	1	100/15 Summer			
24.011	1440 Winter	100	10%	1	100/30 Summer			
24.012	1440 Winter	100	10%	1	100/30 Summer			
1.031	1440 Winter	100	10%	1	100/15 Summer			
29.000	30 Winter	100	10%	1	100/15 Summer	100/30 Winter		
29.001	30 Winter	100	10%	1	100/15 Summer			
30.000	15 Summer	100	10%	1				
30.001	15 Summer	100	10%	1				

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	24.002	6.963	0.738	0.000	0.88	0.0	56.9	SURCH'ED
	26.000	7.382	0.437	0.000	0.58	0.0	44.0	SURCH'ED
	26.001	7.296	0.951	0.000	0.77	0.0	58.0	SURCH'ED
	26.002	7.042	1.257	0.000	1.23	0.0	77.6	FLD RISK
	24.003	6.269	0.989	0.000	1.30	0.0	154.9	FLD RISK
	27.000	6.816	-0.099	0.000	0.58	0.0	27.5	O K
	27.001	6.405	-0.060	0.000	0.86	0.0	40.3	O K
	27.002	6.213	-0.072	0.000	0.76	0.0	58.3	O K
	27.003	5.887	0.252	0.000	0.99	0.0	77.8	SURCH'ED
	24.004	4.736	0.341	0.000	2.12	0.0	227.0	SURCH'ED
	24.005	4.398	0.073	0.000	1.11	0.0	227.0	SURCH'ED
	28.000	5.583	-0.132	0.000	0.36	0.0	24.3	O K
	28.001	5.200	-0.075	0.000	0.77	0.0	60.4	O K
	28.002	4.168	-0.067	0.000	0.84	0.0	62.3	O K
	24.006	4.039	0.079	0.000	0.08	0.0	23.1	SURCH'ED
	24.007	4.038	0.088	0.000	0.06	0.0	24.9	SURCH'ED
	24.008	4.038	0.188	0.000	0.13	0.0	24.7	SURCH'ED
	24.009	4.038	0.208	0.000	0.12	0.0	24.8	SURCH'ED
	24.010	4.038	0.228	0.000	0.11	0.0	24.9	SURCH'ED
	24.011	4.038	0.238	0.000	0.13	0.0	25.6	SURCH'ED
	24.012	4.037	0.257	0.000	0.11	0.0	26.3	SURCH'ED
	1.031	4.037	0.287	0.000	0.24	0.0	228.7	SURCH'ED
1	29.000	10.320	0.845	0.133	0.81	0.0	93.7	FLOOD
	29.001	10.261	1.086	0.000	2.01	0.0	91.9	SURCH'ED
	30.000	10.362	-0.263	0.000	0.20	0.0	26.8	O K
	30.001	10.271	-0.224	0.000	0.34	0.0	46.3	O K

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
30.002	30 Winter	100	10%	1				
29.002	30 Winter	100	10%	1	100/15 Summer			
29.003	30 Winter	100	10%	1	100/15 Summer			
29.004	30 Winter	100	10%	1	100/15 Summer			
29.005	30 Winter	100	10%	1	100/15 Summer			
29.006	30 Winter	100	10%	1	100/15 Summer			
29.007	30 Winter	100	10%	1	100/15 Summer			
29.008	30 Winter	100	10%	1	100/15 Summer			
29.009	30 Winter	100	10%	1	100/15 Summer			
29.010	30 Winter	100	10%	1	100/15 Summer			
29.011	30 Winter	100	10%	1	100/15 Summer			
29.012	30 Winter	100	10%	1	100/15 Summer			
29.013	30 Winter	100	10%	1	100/15 Summer			
29.014	30 Winter	100	10%	1	100/15 Summer			
31.000	15 Winter	100	10%	1				
31.001	15 Winter	100	10%	1	100/15 Winter			
31.002	15 Winter	100	10%	1	100/15 Summer			
32.000	15 Winter	100	10%	1	100/15 Summer			
32.001	15 Winter	100	10%	1	100/15 Summer			
32.002	15 Winter	100	10%	1	100/15 Summer			
31.003	15 Winter	100	10%	1	100/15 Summer			
31.004	15 Winter	100	10%	1	100/15 Summer			
31.005	30 Winter	100	10%	1	100/15 Summer			
33.000	30 Winter	100	10%	1	100/15 Summer			
31.006	30 Winter	100	10%	1	100/15 Summer			
31.007	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.002	10.234	-0.131	0.000	0.33	0.0	47.3	O K
	29.002	10.221	1.076	0.000	1.88	0.0	139.8	SURCH'ED
	29.003	10.187	1.072	0.000	1.64	0.0	143.3	SURCH'ED
	29.004	10.136	1.071	0.000	1.52	0.0	150.1	SURCH'ED
	29.005	10.079	1.069	0.000	1.17	0.0	156.2	SURCH'ED
	29.006	10.041	1.081	0.000	1.22	0.0	162.2	SURCH'ED
	29.007	10.000	1.090	0.000	1.28	0.0	157.0	SURCH'ED
	29.008	9.973	1.093	0.000	1.19	0.0	152.2	SURCH'ED
	29.009	9.938	1.098	0.000	0.99	0.0	152.2	SURCH'ED
	29.010	9.871	1.141	0.000	1.17	0.0	158.6	SURCH'ED
	29.011	9.813	1.143	0.000	1.14	0.0	163.3	SURCH'ED
	29.012	9.752	1.142	0.000	1.54	0.0	157.4	SURCH'ED
	29.013	9.705	1.125	0.000	0.83	0.0	176.8	SURCH'ED
	29.014	9.450	1.260	0.000	0.89	0.0	195.3	FLD RISK
	31.000	11.130	-0.030	0.000	0.08	0.0	11.2	O K
	31.001	11.127	0.037	0.000	0.08	0.0	26.0	SURCH'ED
	31.002	11.122	0.412	0.000	0.17	0.0	41.6	SURCH'ED
	32.000	11.285	0.270	0.000	0.60	0.0	32.4	SURCH'ED
	32.001	11.237	0.572	0.000	0.70	0.0	37.0	SURCH'ED
	32.002	11.164	0.729	0.000	0.65	0.0	32.5	SURCH'ED
	31.003	11.120	0.815	0.000	1.40	0.0	68.4	SURCH'ED
	31.004	11.004	0.974	0.000	1.30	0.0	143.9	SURCH'ED
	31.005	9.871	0.791	0.000	1.15	0.0	131.6	SURCH'ED
	33.000	9.753	0.428	0.000	1.06	0.0	48.4	SURCH'ED
	31.006	9.670	0.725	0.000	0.85	0.0	201.1	SURCH'ED
	31.007	9.408	1.233	0.000	1.09	0.0	196.7	FLD RISK

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms


PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
29.015	30 Winter	100	10%	1	100/15 Summer	100/30 Winter		
34.000	15 Winter	100	10%	1	100/15 Winter			
34.001	15 Winter	100	10%	1	100/15 Summer			
35.000	15 Winter	100	10%	1	100/15 Summer			
35.001	15 Winter	100	10%	1	100/15 Summer			
35.002	15 Winter	100	10%	1	100/15 Summer			
35.003	15 Winter	100	10%	1	100/15 Summer			
35.004	15 Winter	100	10%	1	100/15 Summer			
35.005	15 Winter	100	10%	1	100/15 Summer			
35.006	15 Winter	100	10%	1				
35.007	15 Winter	100	10%	1	100/15 Summer			
35.008	30 Winter	100	10%	1	100/30 Summer			
35.009	30 Winter	100	10%	1	100/15 Summer			
35.010	30 Winter	100	10%	1	100/15 Summer			
35.011	30 Winter	100	10%	1	100/15 Summer			
34.002	30 Winter	100	10%	1	100/15 Summer			
34.003	30 Winter	100	10%	1	100/15 Summer			
36.000	15 Winter	100	10%	1	100/15 Summer			
36.001	15 Winter	100	10%	1	100/15 Summer			
36.002	15 Winter	100	10%	1	100/15 Summer			
36.003	15 Winter	100	10%	1	100/15 Summer			
36.004	15 Winter	100	10%	1	100/15 Summer			
36.005	30 Winter	100	10%	1	100/15 Summer			
36.006	30 Winter	100	10%	1	100/15 Summer			
36.007	30 Winter	100	10%	1	100/15 Summer			
34.004	30 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	29.015	9.120	1.265	0.107	0.86	0.0	371.7	FLOOD
	34.000	10.994	0.004	0.000	0.62	0.0	60.9	SURCH'ED
	34.001	10.938	0.388	0.000	0.79	0.0	94.1	SURCH'ED
	35.000	13.821	0.626	0.000	0.22	0.0	8.3	SURCH'ED
	35.001	13.804	0.779	0.000	1.00	0.0	38.4	SURCH'ED
	35.002	13.462	0.807	0.000	1.17	0.0	43.5	SURCH'ED
	35.003	13.222	0.747	0.000	1.63	0.0	62.4	SURCH'ED
	35.004	12.397	0.222	0.000	1.78	0.0	63.7	SURCH'ED
	35.005	12.112	0.022	0.000	1.25	0.0	70.7	SURCH'ED
	35.006	11.970	-0.060	0.000	0.87	0.0	91.7	O K
	35.007	11.591	0.091	0.000	1.07	0.0	108.9	SURCH'ED
	35.008	11.309	0.139	0.000	0.95	0.0	120.4	SURCH'ED
	35.009	10.969	0.284	0.000	0.44	0.0	123.3	SURCH'ED
	35.010	10.881	0.781	0.000	0.67	0.0	112.5	SURCH'ED
	35.011	10.859	0.819	0.000	0.54	0.0	126.7	SURCH'ED
	34.002	10.811	0.951	0.000	1.06	0.0	179.5	FLD RISK
	34.003	10.769	1.059	0.000	1.12	0.0	223.8	FLD RISK
	36.000	11.405	0.180	0.000	0.38	0.0	14.4	SURCH'ED
	36.001	11.384	0.259	0.000	0.74	0.0	27.5	SURCH'ED
	36.002	11.327	0.322	0.000	1.02	0.0	40.2	SURCH'ED
	36.003	11.179	0.334	0.000	1.37	0.0	39.1	SURCH'ED
	36.004	11.110	0.295	0.000	1.09	0.0	52.2	SURCH'ED
	36.005	10.800	0.295	0.000	0.84	0.0	160.8	SURCH'ED
	36.006	10.575	0.970	0.000	0.73	0.0	125.3	FLD RISK
	36.007	10.520	1.105	0.000	0.94	0.0	116.8	FLD RISK
	34.004	10.479	1.089	0.000	1.10	0.0	369.8	FLD RISK

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
34.005	30 Winter	100	10%	1	100/15 Summer			
34.006	30 Winter	100	10%	1	100/15 Summer			
34.007	30 Winter	100	10%	1	100/15 Summer			
29.016	30 Winter	100	10%	1	100/15 Summer			
29.017	30 Winter	100	10%	1	100/15 Summer			
37.000	15 Winter	100	10%	1	100/15 Summer			
29.018	30 Winter	100	10%	1	100/15 Summer			
29.019	30 Winter	100	10%	1	100/15 Summer			
29.020	30 Winter	100	10%	1	100/15 Summer			
29.021	30 Winter	100	10%	1	100/15 Summer			
38.000	15 Winter	100	10%	1	100/15 Summer			
38.001	30 Winter	100	10%	1	100/15 Summer			
29.022	30 Winter	100	10%	1	100/15 Summer			
29.023	30 Winter	100	10%	1	100/30 Summer			
39.000	15 Winter	100	10%	1	100/15 Summer			
39.001	15 Winter	100	10%	1	100/15 Summer			
39.002	15 Winter	100	10%	1	100/15 Summer			
39.003	15 Winter	100	10%	1	100/15 Summer			
39.004	15 Winter	100	10%	1	100/15 Summer			
39.005	15 Winter	100	10%	1	100/15 Summer			
39.006	30 Winter	100	10%	1	100/15 Summer			
39.007	30 Winter	100	10%	1	100/15 Summer			
39.008	30 Winter	100	10%	1	100/15 Summer			
39.009	30 Winter	100	10%	1	100/15 Summer			
39.010	30 Winter	100	10%	1	100/15 Summer			
39.011	30 Winter	100	10%	1	100/15 Summer			


Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	34.005	9.758	1.153	0.000	1.09	0.0	344.2	FLD RISK
	34.006	9.571	1.136	0.000	1.07	0.0	339.0	FLD RISK
	34.007	9.380	1.190	0.000	1.24	0.0	338.5	FLD RISK
	29.016	8.954	1.329	0.000	1.30	0.0	720.6	FLD RISK
	29.017	8.631	1.196	0.000	1.55	0.0	723.2	FLD RISK
	37.000	9.113	1.178	0.000	1.51	0.0	67.8	FLD RISK
	29.018	8.306	1.061	0.000	1.43	0.0	768.5	FLD RISK
	29.019	7.939	0.874	0.000	1.20	0.0	779.1	SURCH'ED
	29.020	7.563	0.758	0.000	1.68	0.0	781.9	SURCH'ED
	29.021	7.185	0.500	0.000	0.85	0.0	796.7	SURCH'ED
	38.000	6.917	0.707	0.000	1.55	0.0	100.1	SURCH'ED
	38.001	6.650	0.730	0.000	1.64	0.0	90.1	FLD RISK
	29.022	6.608	0.733	0.000	1.84	0.0	857.6	SURCH'ED
	29.023	6.164	0.369	0.000	1.10	0.0	889.5	SURCH'ED
	39.000	9.045	0.670	0.000	0.23	0.0	8.6	SURCH'ED
	39.001	9.032	0.757	0.000	0.42	0.0	15.1	SURCH'ED
	39.002	9.009	0.814	0.000	0.65	0.0	24.1	SURCH'ED
	39.003	8.963	0.878	0.000	0.85	0.0	31.5	SURCH'ED
	39.004	8.907	0.902	0.000	1.61	0.0	62.4	FLD RISK
	39.005	8.563	0.718	0.000	1.78	0.0	61.3	SURCH'ED
	39.006	8.427	0.642	0.000	1.49	0.0	57.3	SURCH'ED
	39.007	8.289	0.604	0.000	1.48	0.0	56.1	SURCH'ED
	39.008	8.114	0.549	0.000	0.84	0.0	63.4	SURCH'ED
	39.009	7.861	0.876	0.000	0.87	0.0	64.4	SURCH'ED
	39.010	7.645	1.075	0.000	0.93	0.0	61.7	FLD RISK
	39.011	7.605	1.030	0.000	0.68	0.0	72.5	FLD RISK

J. B. Barry And Partners Ltd		Page 16
Tramway House 32 Dartry Road Dublin 6 Ireland	Portmarnock Sth Wetland 100YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File_Y17205 - Option 2 - SWS Surcharged (+3.7m) 300pip...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
40.000	15 Winter	100	10%	1	100/15 Summer			
40.001	15 Winter	100	10%	1	100/15 Summer			
40.002	30 Winter	100	10%	1	100/15 Summer			
40.003	30 Winter	100	10%	1	100/15 Summer			
40.004	30 Winter	100	10%	1	100/15 Summer			
39.012	30 Winter	100	10%	1	100/15 Summer			
39.013	30 Winter	100	10%	1	100/15 Summer			
39.014	30 Winter	100	10%	1	100/15 Summer			
39.015	30 Winter	100	10%	1	100/15 Summer			
39.016	30 Winter	100	10%	1	100/15 Summer			
41.000	15 Winter	100	10%	1	100/15 Summer			
41.001	15 Winter	100	10%	1	100/15 Summer			
41.002	30 Winter	100	10%	1	100/15 Summer			
41.003	30 Winter	100	10%	1	100/15 Summer			
41.004	30 Winter	100	10%	1	100/15 Summer			
41.005	30 Winter	100	10%	1	100/15 Summer			
39.017	30 Winter	100	10%	1	100/15 Summer			
39.018	30 Winter	100	10%	1	100/15 Summer			
39.019	30 Winter	100	10%	1	100/15 Summer			
39.020	30 Winter	100	10%	1	100/15 Summer			
39.021	30 Winter	100	10%	1	100/15 Summer			
39.022	30 Winter	100	10%	1	100/15 Summer			
42.000	15 Winter	100	10%	1	100/15 Summer			
43.000	15 Winter	100	10%	1	100/15 Summer			
43.001	15 Winter	100	10%	1	100/15 Summer			
42.001	15 Winter	100	10%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	40.000	9.117	0.682	0.000	1.39	0.0	61.3	SURCH'ED
	40.001	8.040	0.160	0.000	1.04	0.0	64.7	SURCH'ED
	40.002	7.971	0.191	0.000	0.93	0.0	97.6	SURCH'ED
	40.003	7.791	0.466	0.000	0.73	0.0	98.5	SURCH'ED
	40.004	7.758	0.553	0.000	0.80	0.0	157.0	SURCH'ED
	39.012	7.582	1.157	0.000	0.88	0.0	172.6	FLD RISK
	39.013	7.442	1.267	0.000	1.50	0.0	175.8	FLD RISK
	39.014	7.294	1.209	0.000	1.40	0.0	173.9	FLD RISK
	39.015	7.142	1.152	0.000	0.81	0.0	179.1	FLD RISK
	39.016	7.056	1.236	0.000	1.01	0.0	170.2	FLD RISK
	41.000	8.462	0.522	0.000	1.18	0.0	77.6	SURCH'ED
	41.001	8.269	0.659	0.000	0.89	0.0	74.6	SURCH'ED
	41.002	8.144	0.744	0.000	0.80	0.0	93.0	SURCH'ED
	41.003	7.849	1.079	0.000	0.91	0.0	87.2	FLD RISK
	41.004	7.720	1.120	0.000	1.27	0.0	134.0	FLD RISK
	41.005	7.187	1.062	0.000	0.85	0.0	135.1	FLD RISK
	39.017	7.003	1.253	0.000	1.15	0.0	296.3	FLD RISK
	39.018	6.769	1.229	0.000	1.38	0.0	291.7	FLD RISK
	39.019	6.530	1.130	0.000	1.03	0.0	293.4	FLD RISK
	39.020	6.269	1.139	0.000	0.88	0.0	284.3	FLD RISK
	39.021	6.020	1.145	0.000	1.17	0.0	290.6	FLD RISK
	39.022	5.885	1.090	0.000	0.98	0.0	300.4	SURCH'ED
	42.000	7.175	0.520	0.000	1.23	0.0	50.6	SURCH'ED
	43.000	8.156	1.111	0.000	1.37	0.0	68.6	FLD RISK
	43.001	7.091	0.656	0.000	1.61	0.0	75.9	SURCH'ED
	42.001	6.677	0.397	0.000	1.14	0.0	130.7	SURCH'ED

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Tramway House 32 Darry Road Dublin 6 Ireland	Portmarnock Sth Wetland 100YR + 10% (opt2) 3.7mOD Surcharged(300mm)	
Date 29th Nov 2017	Designed By SW	
File Y17205 - Option 2 - SWS Surcharged (+3.7m) 300pip...	Checked By	
Micro Drainage	Simulation W.11.2	

Summary Wizard of "CRITICAL"(Rank 1 by Max Level)
Results for Design Storms

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
42.002	15 Winter	100	10%	1	100/15 Summer			
39.023	30 Winter	100	10%	1	100/15 Summer			
39.024	30 Winter	100	10%	1	100/15 Summer			
39.025	30 Winter	100	10%	1	100/15 Summer			
39.026	30 Winter	100	10%	1	100/15 Summer			
39.027	30 Winter	100	10%	1	100/15 Summer			
39.028	30 Winter	100	10%	1	100/15 Summer			
29.024	30 Winter	100	10%	1	100/15 Summer			
29.025	30 Winter	100	10%	1	100/15 Summer			
29.026	30 Winter	100	10%	1	100/15 Summer			
29.027	30 Winter	100	10%	1	100/15 Summer			
29.028	30 Winter	100	10%	1	100/15 Summer			
1.032	1440 Winter	100	10%	1	100/30 Summer			
1.033	1440 Winter	100	10%	1	100/960 Summer			
1.034	1440 Winter	100	10%	1	100/15 Summer			
1.035	1440 Winter	100	10%	1	100/15 Summer	100/360 Winter		

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	42.002	6.405	0.335	0.000	1.18	0.0	158.1	SURCH'ED
	39.023	5.749	1.194	0.000	1.06	0.0	392.6	SURCH'ED
	39.024	5.683	1.188	0.000	1.44	0.0	397.5	SURCH'ED
	39.025	5.618	1.163	0.000	1.11	0.0	401.9	SURCH'ED
	39.026	5.545	1.150	0.000	1.42	0.0	404.9	SURCH'ED
	39.027	5.482	1.127	0.000	1.99	0.0	405.4	SURCH'ED
	39.028	5.432	1.097	0.000	1.18	0.0	405.4	SURCH'ED
	29.024	5.363	1.073	0.000	1.33	0.0	1268.5	SURCH'ED
	29.025	5.046	0.896	0.000	1.33	0.0	1271.9	SURCH'ED
	29.026	4.727	0.677	0.000	1.33	0.0	1275.4	SURCH'ED
	29.027	4.407	0.487	0.000	1.34	0.0	1279.5	SURCH'ED
	29.028	4.085	0.345	0.000	2.04	0.0	1279.8	SURCH'ED
	1.032	4.035	0.325	0.000	0.38	0.0	433.0	SURCH'ED
	1.033	4.033	0.343	0.000	0.29	0.0	430.3	SURCH'ED
	1.034	4.032	1.932	0.000	2.59	0.0	207.5	SURCH'ED
	1.035	3.907	2.601	0.000	3.68	0.0	207.6	SURCH'ED