

Design Settings

Frequency of use (kDU)	1.00	Additional Flow (%)	0	Preferred Cover Depth (m)	1.200
Flow per dwelling per day (l/day)	4000	Minimum Velocity (m/s)	0.75	Include Intermediate Ground	✓
Domestic Flow (l/s/ha)	225.0	Connection Type	Level Soffits		
Industrial Flow (l/s/ha)	0.0	Minimum Backdrop Height (m)	0.200		

Nodes

Name	Cover Level (m)	Manhole Type	Depth (m)
123	10.956	Adoptable	1.056
125	10.586	Adoptable	1.056
127	10.537	Adoptable	1.057
129	10.673	Adoptable	1.334
131	10.485	Adoptable	1.644
133	10.362	Adoptable	1.592
135	10.543	Adoptable	2.168
137	10.436	Adoptable	2.175
139	10.754	Adoptable	1.354
141	10.943	Adoptable	1.913
143	10.933	Adoptable	2.181
145	10.810	Adoptable	2.194
147	10.410	Adoptable	2.116
149	10.358	Adoptable	2.144
151	10.268	Adoptable	2.117
153	10.817	Adoptable	2.807
EXFMH-5702	10.960	Adoptable	2.980

Links

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Slope (1:X)	Dia (mm)
1.000	123	125	56.165	9.900	9.630	208.0	150
1.001	125	127	17.999	9.530	9.500	600.0	150
1.002	127	129	21.010	9.480	9.339	149.0	150
1.003	129	131	43.116	9.339	8.841	86.6	150
1.004	131	133	10.510	8.841	8.770	148.0	150
1.005	133	135	59.205	8.770	8.375	149.9	150
1.006	135	137	17.100	8.375	8.261	150.0	150
1.007	137	149	7.041	8.261	8.214	149.8	150
2.000	139	141	27.220	9.400	9.030	73.6	150
2.001	141	143	41.695	9.030	8.752	150.0	150
2.002	143	145	20.289	8.752	8.616	149.2	150
2.003	145	147	48.298	8.616	8.294	150.0	150
2.004	147	149	4.802	8.294	8.261	145.5	150

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.000	0.606	10.7	0.0	0.000	0	0.0	0.0	0	0.000
1.001	0.000	0.355	6.3	0.0	0.000	0	0.0	0.0	0	0.000
1.002	0.000	0.716	12.7	0.0	0.000	0	0.0	0.0	0	0.000
1.003	0.000	0.942	16.6	0.0	0.000	0	0.0	0.0	0	0.000
1.004	0.000	0.719	12.7	0.0	0.000	0	0.0	0.0	0	0.000
1.005	0.000	0.714	12.6	0.0	0.000	0	0.0	0.0	0	0.000
1.006	0.000	0.714	12.6	0.0	0.000	0	0.0	0.0	0	0.000
1.007	0.000	0.715	12.6	0.0	0.000	0	0.0	0.0	0	0.000
2.000	0.000	1.022	18.1	0.0	0.000	0	0.0	0.0	0	0.000
2.001	0.000	0.714	12.6	0.0	0.000	0	0.0	0.0	0	0.000
2.002	0.000	0.716	12.7	0.0	0.000	0	0.0	0.0	0	0.000
2.003	0.000	0.714	12.6	0.0	0.000	0	0.0	0.0	0	0.000
2.004	0.000	0.725	12.8	0.0	0.000	0	0.0	0.0	0	0.000

Links

Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Slope (1:X)	Dia (mm)
1.008	149	151	9.348	8.214	8.151	148.4	150
1.009	151	153	21.122	8.151	8.010	149.8	150
1.010	153	EXFMH-5702	4.498	8.010	7.980	149.9	150

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.008	0.000	0.718	12.7	0.0	0.000	0	0.0	0.0	0	0.000
1.009	0.000	0.715	12.6	0.0	0.000	0	0.0	0.0	0	0.000
1.010	0.000	0.714	12.6	0.0	0.000	0	0.0	0.0	0	0.000

Simulation Settings

Analysis Speed	Normal	Drain Down Time (mins)	240
Skip Steady State	✓	Foul Event Duration (mins)	

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Pre-development Discharge Rate

Site Makeup	Greenfield	SPR	0.10	Betterment (%)	0
Greenfield Method	IH124	Region	1	QBar	
Positively Drained Area (ha)		Growth Factor 1 year	0.85	Q 1 year (l/s)	
SAAR (mm)		Growth Factor 30 years	1.95	Q 30 year (l/s)	
Soil Index	1	Growth Factor 100 years	2.48	Q 100 year (l/s)	



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B63 3HN

File: PHASE 1 - FW NETWORK 03 - 202
Network: Foul Network 3
Oliver Bayley
18/07/2022

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Southern Development
Foul Water - Network 03

Pre-development Discharge Volume

Site Makeup	Greenfield	SPR	0.10	Storm Duration (mins)	360
Greenfield Method	FSR/FEH	CWI		Betterment (%)	0
Positively Drained Area (ha)		Return Period (years)	100	PR	
Soil Index	1	Climate Change (%)	0	Runoff Volume (m ³)	