

Design Settings

Frequency of use (kDU)	0.00	Minimum Velocity (m/s)	0.75
Flow per dwelling per day (l/day)	4000	Connection Type	Level Soffits
Domestic Flow (l/s/ha)	0.0	Minimum Backdrop Height (m)	0.000
Industrial Flow (l/s/ha)	0.0	Preferred Cover Depth (m)	1.200
Additional Flow (%)	0	Include Intermediate Ground	✓

Nodes

Name	Dwellings	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
1	12	114.175	1200	446566.342	298237.665	2.175
3	9	113.835	1200	446561.538	298244.449	2.335
5	4	112.428	1200	446556.167	298272.372	2.428
7	0	111.200	1200	446551.229	298298.019	2.450
9	8	110.200	1200	446546.858	298316.283	2.350
11	0	109.350	1200	446543.377	298330.873	2.450
13	14	108.625	1200	446543.789	298344.825	3.075
15	0	107.723	1200	446547.900	298359.935	2.623
17	2	106.814	1200	446556.616	298372.931	2.514
19	0	105.554	1200	446574.163	298389.277	2.354
21	0	104.310	1200	446594.454	298402.126	2.460
23	12	103.379	1200	446610.846	298410.030	2.479
25	0	102.608	1200	446630.950	298415.257	2.108
27	4	102.807	1200	446654.306	298413.190	2.807
29	6	102.590	1200	446684.137	298405.644	2.795
31	3	102.436	1200	446699.931	298405.010	2.746
47	8	104.771	1200	446751.731	298364.669	2.071
49	4	105.314	1200	446730.677	298355.147	2.914
51	0	103.042	1200	446716.282	298386.386	2.042
33	9	102.305	1200	446712.109	298406.266	2.805
35	0	102.141	1200	446728.199	298411.972	2.841
53	11	102.502	1200	446768.685	298431.015	2.002
37	4	102.100	1200	446743.696	298418.874	2.950
39	0	100.933	1200	446728.653	298450.893	2.133
41	9	100.113	1200	446714.753	298471.330	2.213
43	19	99.334	1200	446699.890	298492.145	2.334
45		99.200	1200	446694.075	298507.374	2.309

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
1.000	1	3	8.313	1.500	112.000	111.500	0.500	16.6	150
1.001	3	5	28.435	1.500	111.500	110.000	1.500	19.0	150
1.002	5	7	26.118	1.500	110.000	108.750	1.250	20.9	150
1.003	7	9	18.780	1.500	108.750	107.850	0.900	20.9	150

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.526	2.155	38.1	0.6	2.025	2.185	0.000	12	0.0	0.0	13	0.760
1.001	0.595	2.018	35.7	1.0	2.185	2.278	0.000	21	0.0	0.0	17	0.857
1.002	0.612	1.922	34.0	1.2	2.278	2.300	0.000	25	0.0	0.0	19	0.871
1.003	0.613	1.923	34.0	1.2	2.300	2.200	0.000	25	0.0	0.0	19	0.872

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
1.004	9	11	15.000	1.500	107.850	106.900	0.950	15.8	150
1.005	11	13	13.958	1.500	106.900	105.550	1.350	10.3	150
1.006	13	15	15.659	1.500	105.550	105.100	0.450	34.8	150
1.007	15	17	15.648	1.500	105.100	104.300	0.800	19.6	150
1.008	17	19	23.981	1.500	104.300	103.200	1.100	21.8	150
1.009	19	21	24.017	1.500	103.200	101.850	1.350	17.8	150
1.010	21	23	18.198	1.500	101.850	100.900	0.950	19.2	150
1.011	23	25	20.772	1.500	100.900	100.500	0.400	51.9	150
1.012	25	27	23.447	1.500	100.500	100.000	0.500	46.9	150
1.014	27	29	30.771	1.500	100.000	99.795	0.205	150.1	150
1.015	29	31	15.807	1.500	99.795	99.690	0.105	150.5	150
1.016	31	33	12.243	1.500	99.690	99.500	0.190	64.4	150
2.000	47	49	23.107	1.500	102.700	102.400	0.300	77.0	150
2.001	49	51	34.396	1.500	102.400	101.000	1.400	24.6	150
2.002	51	33	20.313	1.500	101.000	99.500	1.500	13.5	150
1.017	33	35	17.072	1.500	99.500	99.300	0.200	85.4	150
1.018	35	37	16.965	1.500	99.300	99.150	0.150	113.1	150
3.000	53	37	27.782	1.500	100.500	99.150	1.350	20.6	150
1.019	37	39	35.377	1.500	99.150	98.800	0.350	101.1	150
1.020	39	41	24.716	1.500	98.800	97.900	0.900	27.5	150
1.021	41	43	25.577	1.500	97.900	97.000	0.900	28.4	150
1.022	43	45	16.301	1.500	97.000	96.891	0.109	149.6	150

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.004	0.731	2.212	39.1	1.5	2.200	2.300	0.000	33	0.0	0.0	20	1.044
1.005	0.873	2.735	48.3	1.5	2.300	2.925	0.000	33	0.0	0.0	18	1.215
1.006	0.631	1.488	26.3	2.2	2.925	2.473	0.000	47	0.0	0.0	30	0.896
1.007	0.764	1.987	35.1	2.2	2.473	2.364	0.000	47	0.0	0.0	25	1.090
1.008	0.762	1.882	33.2	2.3	2.364	2.204	0.000	49	0.0	0.0	27	1.062
1.009	0.801	2.083	36.8	2.3	2.204	2.310	0.000	49	0.0	0.0	25	1.143
1.010	0.793	2.008	35.5	2.3	2.310	2.329	0.000	49	0.0	0.0	26	1.117
1.011	0.595	1.217	21.5	2.8	2.329	1.958	0.000	61	0.0	0.0	37	0.835
1.012	0.626	1.281	22.6	2.8	1.958	2.657	0.000	61	0.0	0.0	36	0.870
1.014	0.424	0.714	12.6	3.0	2.657	2.645	0.000	65	0.0	0.0	50	0.585
1.015	0.434	0.713	12.6	3.3	2.645	2.596	0.000	71	0.0	0.0	52	0.599
1.016	0.589	1.092	19.3	3.4	2.596	2.655	0.000	74	0.0	0.0	43	0.823
2.000	0.268	0.999	17.6	0.4	1.921	2.764	0.000	8	0.0	0.0	16	0.393
2.001	0.455	1.772	31.3	0.6	2.764	1.892	0.000	12	0.0	0.0	14	0.663
2.002	0.551	2.389	42.2	0.6	1.892	2.655	0.000	12	0.0	0.0	13	0.816
1.017	0.577	0.948	16.8	4.4	2.655	2.691	0.000	95	0.0	0.0	52	0.797
1.018	0.525	0.823	14.5	4.4	2.691	2.800	0.000	95	0.0	0.0	57	0.719
3.000	0.472	1.937	34.2	0.5	1.852	2.800	0.000	11	0.0	0.0	13	0.683
1.019	0.568	0.871	15.4	5.1	2.800	1.983	0.000	110	0.0	0.0	59	0.781
1.020	0.892	1.676	29.6	5.1	1.983	2.063	0.000	110	0.0	0.0	42	1.254
1.021	0.903	1.647	29.1	5.5	2.063	2.184	0.000	119	0.0	0.0	44	1.261
1.022	0.530	0.715	12.6	6.4	2.184	2.159	0.000	138	0.0	0.0	75	0.716

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

Pre-development Discharge Rate

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

Pre-development Discharge Volume

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