

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SW02	0.090	5.00	28.390	1200	530210.905	118763.056	1.220
SWMS(a)	0.137	5.00	28.540	1200	530176.325	118764.707	1.840
SWMS	0.052	5.00	28.830	1200	530169.153	118761.816	2.230
OUTFALL			29.000	1200	530164.907	118764.141	2.500

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
EX1.000	SW02	SWMS(a)	34.619	0.600	27.170	26.700	0.470	73.7	225	5.38	50.0
EX1.001	SWMS(a)	SWMS	7.733	0.600	26.700	26.600	0.100	77.3	300	5.45	50.0
EX1.002	SWMS	OUTFALL	4.841	0.600	26.600	26.500	0.100	48.4	300	5.49	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
EX1.000	1.525	60.6	16.3	0.995	1.615	0.090	0.0	80	1.299
EX1.001	1.789	126.5	41.0	1.540	1.930	0.227	0.0	117	1.605
EX1.002	2.265	160.1	50.4	1.930	2.200	0.279	0.0	115	2.012

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	20.0		

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	0	0	0
100	0	0	0

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW02	10	27.250	0.080	16.7	0.2077	0.0000	OK
15 minute summer	SWMS(a)	10	26.839	0.139	42.0	0.3632	0.0000	OK
15 minute summer	SWMS	10	26.742	0.141	51.1	0.2260	0.0000	OK
15 minute summer	OUTFALL	10	26.615	0.115	50.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW02	EX1.000	SWMS(a)	16.5	0.865	0.272	0.6617	
15 minute summer	SWMS(a)	EX1.001	SWMS	41.4	1.289	0.328	0.2493	
15 minute summer	SWMS	EX1.002	OUTFALL	50.9	1.770	0.318	0.1393	22.4

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW02	10	27.305	0.135	41.7	0.3518	0.0000	OK
15 minute summer	SWMS(a)	10	26.988	0.288	104.8	0.7558	0.0000	OK
15 minute summer	SWMS	10	26.868	0.268	127.2	0.4284	0.0000	OK
15 minute summer	OUTFALL	10	26.699	0.199	126.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW02	EX1.000	SWMS(a)	41.3	1.146	0.681	1.1188	
15 minute summer	SWMS(a)	EX1.001	SWMS	103.1	1.515	0.815	0.5259	
15 minute summer	SWMS	EX1.002	OUTFALL	126.7	2.154	0.791	0.2808	55.9

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.85%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW02	11	27.519	0.349	52.4	0.9100	0.0000	SURCHARGED
15 minute summer	SWMS(a)	11	27.152	0.452	125.3	1.1837	0.0000	SURCHARGED
15 minute summer	SWMS	11	26.968	0.368	154.4	0.5875	0.0000	SURCHARGED
15 minute summer	OUTFALL	11	26.733	0.233	154.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW02	EX1.000	SWMS(a)	49.2	1.238	0.812	1.3768	
15 minute summer	SWMS(a)	EX1.001	SWMS	125.5	1.782	0.992	0.5446	
15 minute summer	SWMS	EX1.002	OUTFALL	154.5	2.251	0.965	0.3125	70.1

