

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
5			2.000	450	171.219	-53.718	0.880
6			2.000	450	170.328	-60.092	0.960
Soakaway Front			2.000		168.688	-59.932	0.990
4	0.008	4.00	2.000	100	161.095	-52.189	0.750

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	10.239	78.8	100	SW_Standard	2.000	1.250	0.650	2.000	1.120	0.780
1.001	6.436	80.0	100	SW_Standard	2.000	1.120	0.780	2.000	1.040	0.860
1.002	1.648	54.9	100	SW_Standard	2.000	1.040	0.860	2.000	1.010	0.890

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	4	100	Manhole	SW_RE	5	450	Manhole	SW_Standard
1.001	5	450	Manhole	SW_Standard	6	450	Manhole	SW_Standard
1.002	6	450	Manhole	SW_Standard	Soakaway Front		Junction	

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	0.750	Drain Down Time (mins)	1440	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440	2160
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
100	40	0	0

Node Soakaway Front Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.01476	Invert Level (m)	1.000	Depth (m)	0.400
Side Inf Coefficient (m/hr)	0.02952	Time to half empty (mins)	1053	Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	3.000	Number Required	1
Porosity	0.95	Pit Length (m)	4.000		

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 96.37%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute winter	5	930	1.911	0.791	0.4	0.1257	0.0000	FLOOD RISK
960 minute winter	6	930	1.911	0.871	0.4	0.1384	0.0000	FLOOD RISK
960 minute winter	Soakaway Front	930	1.911	0.901	0.4	4.5657	0.0000	OK
960 minute winter	4	930	1.911	0.660	0.4	0.0053	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
960 minute winter	5	1.001	6	0.4	0.326	0.054	0.0504
960 minute winter	6	1.002	Soakaway Front	0.4	0.351	0.045	0.0129
960 minute winter	Soakaway Front	Infiltration		0.0			
960 minute winter	4	1.000	5	0.4	0.383	0.059	0.0801