

Job Description:	HERITAGE HOME BUILDERS
Contact:	C.B
Prepared by:	CMB Enginners inc.
Date:	31-Mar-23

Please fill in the shaded areas and drop down menus:
This spreadsheet serves as a guide, and is not a complete hydraulic design.

Worksheet 1- Field Flow

Total field

Total Quantity of effluent to be disposed per day	700	gallons / day	
Hydraulic loading rate	0.8	gallons / sq.ft. / day	note
Minimum Dispersal Field Area	875	square ft.	note
Total Dispersal Field Area	875	square ft.	note

Flow per zone

Number of Zones	1	zone(s)	note
Dispersal area per zone	875	square ft.	note
Choose line spacing between WASTEFLOW lines	2	ft. 1"	note
Choose emitter spacing between WASTEFLOW emitters	2	ft.	note
Total linear ft. per zone (minimum required)	438	ft. per zone	note
Total number of emitters per zone	219	emitters per zone	note
Select Wasteflow dripline (16mm)	Wasteflow PC - 1/2gph	dripline	note
Pressure at the beginning of the dripfield	20	psi	note
Feet of Head at the beginning of the dripfield	46.2	ft.	note
What is the flow rate per emitter in gph?	0.53	gph	note
Dose flow per zone	1.93	gpm	note

Note: A few States or Counties require additional flow for flushing. Please check your local regulations.

Flush velocity calculation below is for PC dripline. Classic dripline requires less flow to flush than PC.

Please refer to Geoflow's spreadsheet "Design Flow and Flush Curves" at www.geoflow.com or call 800-828-3388.

If required, choose flush velocity	0.5	ft/sec	note
How many lines of WASTEFLOW per zone?	1	lines	note
Fill in the actual length of longest dripline lateral	438	ft.	note
Flush flow required at the end of each dripline	0.37	gpm	note
Total Flow required to achieve flushing velocity	0.37	gpm	note
Total Flow per zone- worst case scenario	2.30	gpm	note

Select Filters and zone valves

Select Filter Type	BioDisc Filter		note
Recommended Filter (item no.)	BioDisc-150	1.5" Disc Filter 0-30gpm	note
Select Zone Valve Type	None	-	note
Recommended Zone Valve (item no.)	0	0	note

Dosing

Number of doses per day / zone:	6	doses	note
Timer ON. Pump run time per dose/zone:	60.23	mins:secs	60.38
Timer OFF. Pump off time between doses	2:59	hrs:mins	2.99
Per Zone - Pump run time per day/zone:	6:02	hrs:mins	6.04
All Zones - Number of doses per day / all zones	6	doses / day	
Allow time for field to pressurize	0:00:30	hrs:mins:secs	0.500
Filter flush timer	0:00:20	hrs:mins:secs	0.333
Drain timer	0:05:00	hrs:mins:secs	5.000
Field flush timer	0:01:00	hrs:mins:secs	1.000
Field flush counter	6	cycles	note
Time required to complete all functions per day	6:43	hrs:mins	6.7211
Dose volume per zone	117	gallons per dose	note