Seepage Bed Sizing Worksheet

Area of infiltrative Surface (AIS) & Minimum Contour Length (MCL) Sizing
The complete system is to comply with BC SPM Version 3

This worksheet does NOT consider all of the requirements of SPM Version 3

Use only Metric units of measurement throughout (Liters (L), Centimeters (cm), L/day/m²) Step 1) Determine the expected volume of sewage per day Daily Design Flow DDF F1 Be sure that sewage strength does not exceed requirements of L/day BC SPM V3 - Table III- 8 Step 2) Determine the (design) soil effluent loading rate: **Consistence Category** Table II-22 & & Soil HLR F2A L/day/m² Texture Structure Grade Consistence Table II-23 Permeability HLR OR L/day/m² mm/day min/inch Kfs Range Perc Rate F2 L/day/m2 Site Slope % Use lower of values from F2A or F2B to determine F2 HLR Step 3) Calculate the required area of infiltrative surface for the soil (AIS) Area of Infiltrative DDF **HLR** Surface AIS L/day/m² m^2 L/day F3 From F1 From F2 Step 4) Select the appropriate Linear Loading Rate (LLR) Consistence Category Table II-27 & Soil LLR F4A L/day/m Structure Texture Grade Consistence Table II-28 Perc Rate Kfs Range or F4B Permeability LLR L/day/m mm/day min/inch Step 5) Determine minimum contour length of dispersal field required based on LLR Minimum contour Length DDF LLR L/day L/d/m m F5 from F1 Minimum Length 7.5 m Use lower value of F4A or F4B Step 6) Determine width of seepage bed based on MCL Bed width based on MCL AIS MCL m^2 m F6 From F5



