

Figure: 30 TAC §217.164(e)(2)(D)

Equation F.14.

$$SBD = \frac{V_a (MLSS_{av} - MLSS_{pf})}{(A_c BKSS)} + 1.0$$

Where:

SBD = Sludge Blanket Depth (feet)

V_a = Volume of aeration basins (cubic feet)

A_c = Area of clarifier (square feet)

$MLSS_{pf}$ = Diluted MLSS during peak flow (milligrams per liter (mg/l))

$MLSS_{av}$ = Diluted MLSS during average flow (mg/l)

BKSS = Blanket concentration at the selected underflow rate (mg/l) from Table F.11. in Figure 3: 30 TAC §217.164(e)(2)(I)

1.0 = Assumed sludge blanket depth during design flow conditions (feet)