

4.21.4 Drainfield Trenches

1. Distances shown in Table 4-19 must be maintained between the trench bottom and limiting layer.
2. Capping fill may be used to obtain adequate separation distance from limiting layers but must be designed and constructed according to the guidance for capping fill trenches in section 4.2.
3. Pressure distribution may be used with the following design considerations:
 - a. The pressure distribution system related to the drainfield is designed according to section 4.18.
 - b. The dosing chamber for the intermittent sand filter may not be used as the dosing chamber for the drainfield.
4. The drainfield shall be sized by dividing the maximum daily flow by the hydraulic application rate for the applicable soil design subgroup listed in Table 4-20.

Table 4-19. Intermittent sand filter vertical setback to limiting layers (feet).

| Limiting Layer | Flow < 2,500 GPD | Flow ≥ 2,500 GPD |
|-------------------------------------|------------------|------------------|
| | All Soil Types | All Soil Types |
| Impermeable layer | 2 | 4 |
| Fractured rock or very porous layer | 1 | 2 |
| Normal high ground water | 1 | 2 |
| Seasonal high ground water | 1 | 2 |

Note: gallons per day (GPD)

Table 4-20. Secondary biological treatment system hydraulic application rates.

| Soil Design Subgroup | Application Rate (gallons/square foot/day) |
|----------------------|--|
| A-1 | 1.7 |
| A-2a | 1.2 |
| A-2b | 1.0 |
| B-1 | 0.8 |
| B-2 | 0.6 |
| C-1 | 0.4 |
| C-2 | 0.3 |