

## 4.24 Sand Mound

Revision: December 10, 2014

Installer registration permit: Complex

Licensed professional engineer required: Yes

### 4.24.1 Description

A sand mound is a soil absorption facility consisting of a septic tank, dosing chamber, mound constructed of medium sand, a pressurized small-diameter pipe distribution system, and topsoil cap. Figure 4-40 provides a diagram of a sand mound.

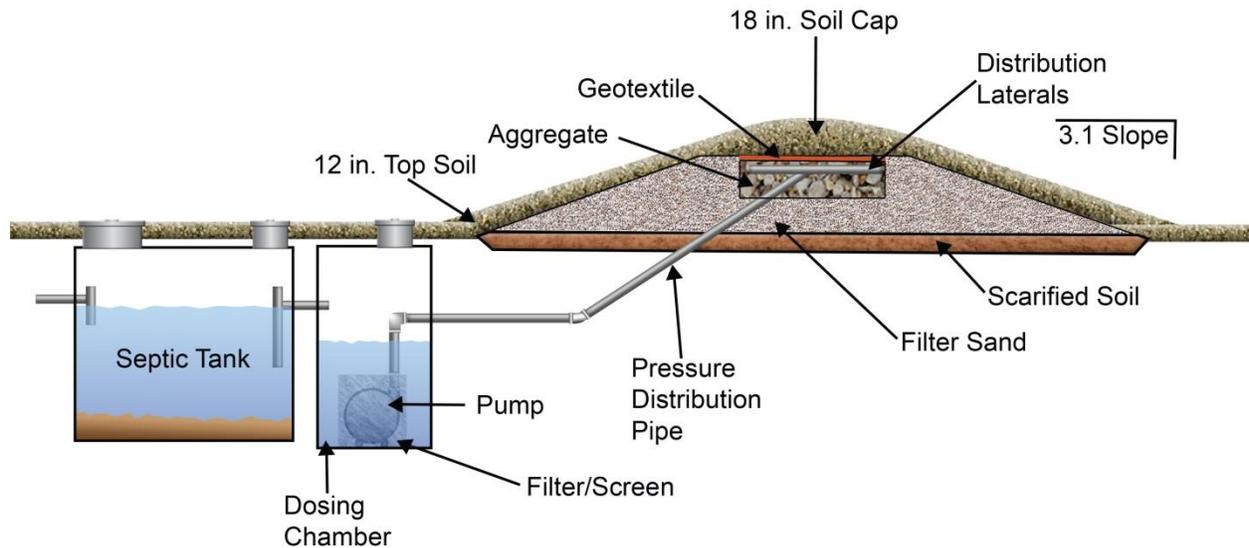


Figure 4-40. Cross-sectional view of sand mound.

### 4.24.2 Approval Conditions

1. Effective soil depth to limiting layers may vary depending upon thickness of filter sand beneath the absorption bed:
  - a. If 12 inches of filter sand is placed beneath the absorption bed, then Table 4-24 lists the minimum depth of natural soil to the limiting layer.
  - b. If 24 inches of filter sand is placed beneath the absorption bed, then Table 4-22 in Section 4.22 “Intermittent Sand Filter,” identifies the effective soil depth to limiting layers.
2. The soil application rate used in the sand mound design is based on the most restrictive soil layer within the soil profile’s effective soil depth as determined by approval condition 1 except that the effective sizing depth shall not be less than 18 inches.
3. Table 4-25 shows the maximum slope of natural ground, listed by soil design group.
4. Sand mound must not be installed in flood ways, areas with large trees and boulders, in concave slopes, at slope bases, or in depressions.
5. Minimum pretreatment of sewage before disposal to the mound must be a septic tank sized according to IDAPA 58.01.03.007.07.