

**Forest Service Handbook
National Headquarters-Washington Office
Washington, DC**

Forest Service Handbook 7409.11 – Sanitary Engineering and Public Health Handbook

Chapter 50 - Wastewater

Amendment: 7409.11-Amendment-10

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Superseded Directive:

Approved by:

Date approved:

Responsible Staff:

Explanation of changes:

58.93d – Table

Sludge and Site Conditions

Method	Sludge Solids Contents (Percent)	Sludge Characteristics	Hydrogeology	Ground Slope
Narrow Trench.....	15-28	Unstabilized or Stabilized	Deep groundwater and bedrock	< 20 percent
Wide Trench.....	≥ 20	Unstabilized or Stabilized	Deep groundwater and bedrock	< 10 percent
Area full mound.....	≥ 20	Stabilized	Deep groundwater or bedrock	Suitable for steep terrain as long as level area is prepared for mounding
Area full layer	≥ 15	Unstabilized or Stabilized	Shallow groundwater or bedrock	Suitable for medium slopes but level ground preferred
Diked containment.....	≥ 20	Stabilized	Shallow groundwater or bedrock	Suitable for steep terrain as long as a level area is prepared inside dikes
Sludge refuse.....	≥ 3	Unstabilized or Stabilized	Deep or shallow groundwater or bedrock	< 30 percent
Sludge Soil mixture.....	≥ 20	Stabilized	Deep or shallow groundwater or bedrock	< 5 percent