

1. An operator mixes 40 lb of lime in a 100-gal tank containing 80 gal of water. What is the percent of lime in the slurry?

2. Find the detention time in minutes for a clarifier that has a diameter of 152 ft and a water depth of 8.22 ft, if the flow rate is 6.8 mgd.

3. Water is flowing at a velocity of 1.70 fps in a 10-in. diameter pipe. If the pipe changes from the 10-in. to a 6-in. pipe, what will the velocity be in the 6-in. pipe?