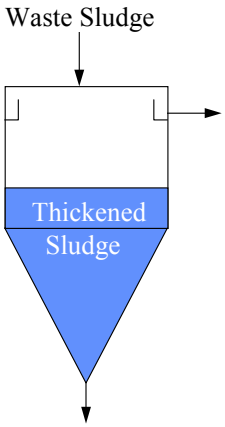
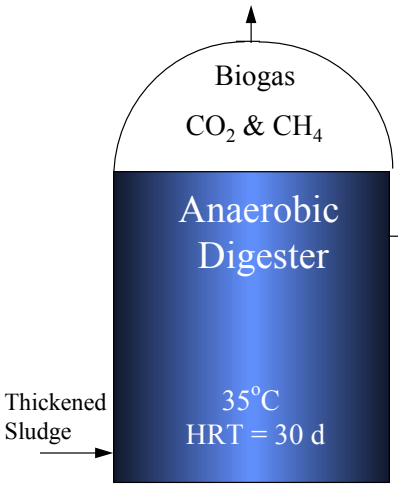
Sludge Treatment

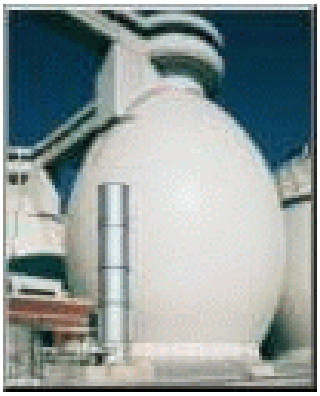
The basic processes for sludge treatment are as follows:

Gravity Thickener



- **Thickening:** c_____ sludge using gravity or f_____ methods. Primary sludge can be thickened to a maximum of about 10% solids and secondary sludge to a maximum of about 6% solids.

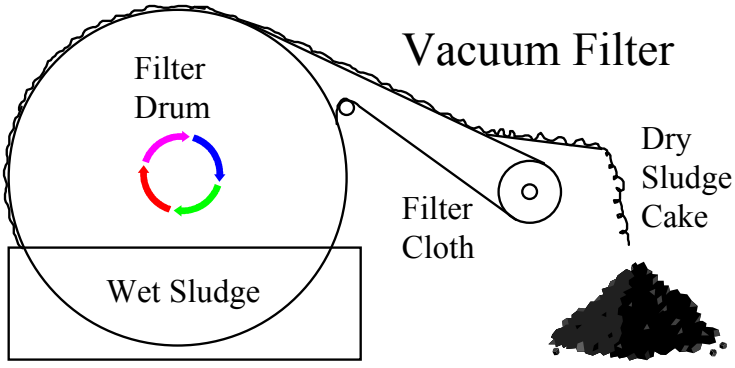




- **Stabilization:** converting the o_____ in the sludge to more stable (inert) forms so they can be handled more easily (more d_____, less potential for odors) and used as soil conditioners. Typically stabilization involves **anaerobic** or **aerobic digestion.** During digestion considerable v_____ s_____ destruction occurs

- **Conditioning:** Addition of c_____ to allow better separation of the water and the solids. Ferric c_____and organic and inorganic p_____ are frequently used for sludge conditioning.

Vacuum Filter



- **Dewatering:** V_____, pressure, or drying methods for removing w_____ from the solids. Typically about 25 to 35% solids can be achieved.

- **Reduction:**
I_____ of sludge with ash residual for ultimate disposal.