

In this process we separate solids that settle to the bottom of the tank. The solids (raw

The sludge from the Primary Settling Tank and Secondary Settling Tank are mixed together and then treated in the Anaerobic Digester. The tank is airtight, warmed to about 30 degrees Celsius and after about 20 days, the sludge is broken down by bacteria into methane gas and carbon dioxide. About half the sludge is converted into gas. The gas is used to maintain the

The treated sludge is spread into drying beds where it dries. Sludge drying relies on an underground drainage system as well as sunshine. Liquid from the drains is returned to the

This is where we treat the liquids that flow from the Primary settling tank. The liquid trickles over a bed of stones on which a layer of bacteria grow. The bacteria convert polluting material

Biological treatment produces more solids. These solids settle to the bottom of the tank. The

The final treatment effluent that flows from the secondary settlement tanks may still contain harmful bacteria. To destroy these bacteria the final effluent is disinfected by chlorine (similar

18 Nel Street, PO Box 12753 | Nelspruit 1200, South Africa | www.silulumanzi.com