

## Comparison of the designed treatment of sludge

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### At Zai Water Treatment Plant



Figure 1 – left: the sludge bed is filling up, right: a front-end loader is taking the dry sludge for fertilizer

They let the water evaporate and take the solid waste to be used as fertilizer in the desert. The size of fertilizer is a good mix with the sand and it has carbon which is good natural organic for plant.

### At the Wadi Ma'in, Zara, and Mujib Desalination Plant



Figure 2 – the sludge is being taken out for land fill

They use the dewatered sludge for land fill rather than fertilizer. Since no activated carbon is added during the treatment process, there is no usable nutrient value in the solid waste.

This is the side stream of water treatment process. In both treatment plants, sludge is removed from the flow which becomes drinking water. It can be seen that none of the water in the sludge is reclaimed since evaporation is used to isolate the solid waste.