## Waste Management from the Waste Water Treatment Plant

The Waste Water Treatment Plant will produce several streams of waste. One of these being the phosphate rich non-biological sludge. The plant is estimated to produce 1315kgDS/day. This comes from the pre-treatment stage targeting the breakdown of the cross linkers in the effluent stream to reduce phosphate levels. This produces solid phosphates in sludge form. Currently this is to be sent to incineration at the beginning of the process and then landfill when the process is balanced. However, as the site currently does with all its current waste streams and is part of the site Environmental Specialist job profile, a continual effort to move this waste stream up the waste hierarchy away from landfill to reduce the effect on the environment will be looked - into both by ourselves and by the waste management provider. The site has set KPIs for landfill diversion that are monitored and reported therefore re-enforcing the commitment the site will make to explore other opportunities.

Moreover, an organic biological waste sludge will be produced from the operation of the plant due to the biomass presence in effluent. This is estimated to be 921kgDS/day. As this builds up in the process, the sludge will be collected and sent into a screw press process in order to de-water it and deposit the sludge into skips below. These will be collected by a licensed waste operator periodically and planned to be sent to land spreading – a reuse option away from landfill and as a potential fertilizer.

Aside from these main process waste streams, other waste produced on the plant will be disposed of on the main Lenzing site waste slab as per the site’s standard operating procedure for waste management. There is a dedicated Waste Steward on the site who oversees and provides guidance for this. Waste streams could include general waste, wood, cardboard and WEEE waste.