



Dewatering & Waste Reduction

Mantank's Dewatering and Waste Reduction Treatments provide a cost effective and environmentally friendly method of reducing the amount of waste requiring disposal. The role of the modern day Filter Press is to remove the filtrate from the sludge and change it into a dry filter cake. The filtrate can either be reused onsite or disposed of to drain. This will significantly reduce the amount of waste to be disposed of and reduce disposal costs.

Example:

A customer has 100ton of liquid waste to dispose of, off site, of which only 10% may be solid material with the remaining 90% filtrate. With the use of mobile dewatering equipment 90ton of filtrate can be recycled back to plant, rather than tankering 100ton of liquid off site. Currently most liquid waste is disposed of in liquid form by mobile tankers for disposal either to a treatment center or suitable landfill site.

Pre Process:

Initially one of our dewatering experts will visit your site and carry out a site survey where a sample of the liquid waste will be taken and tested to ensure the waste can be filtered. It will also determine the quality of the filtrate and dryness of solid filter cake.

This process can be carried out in our laboratory or at your premises using our Test Filter Press. Once this has been completed calculations can be made and a full proposal submitted to the client.



Static Filter Press



Test Filter Press



Filter Press





The Process:

Mantank operate fully mobile and self-contained 1300mm² membrane type Filter Presses. Each press has 80 chambers, providing a cake drop capacity of approx 3.5m³ per cycle. Given that on some products a cycle can be completed in one hour, the units have the capability to handle and process up to 30m³ of sludge per hour.

Our Mobile Filter Presses are available either for short term or long term hire. Used for short term contracts our mobile presses will arrive manned, with power as a completely self contained unit.

For long term dewatering contracts ie large lagoons etc we have available semi static units which are delivered to your site and erected the same day. Typically the units will be supplied with 2 operatives for the complete operation of the plant. These staff are highly trained in the use of Mobile Filter Presses. In instances where the client prefers to operate the unit using their own operatives we would provide comprehensive training on the operation of the Filter Press and its associated equipment.

The units come complete with feed pumps and all the necessary ancillary equipment including generators, all mounted on a 40ft enclosed trailer. Dry cake is discharged via a radial conveyor at the back of the unit, either onto the floor or into a skip. Complete with the unit will be a wagon mounted mobile lifting arm for positioning of the submersible mixer pump within the lagoon or tank, with the facility to move the pump around to maximise sludge removal. This pump can also incorporate a chopper unit for maceration of any large particles.

These units where required can be left on site on a retainer basis for emergency use. We have the capabilities to mobilise our units very quickly providing a fast and efficient delivery to any site throughout the UK and Europe.



Submersible mixer pump & mobile lifting arm



Mobile Filter Press



Sludge Lagoon requiring Dewatering

Contact Details

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- > Land Remediation

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