

BiOWiSH™ Technologies' Role in Waste Water Treatment Plants

Dosing Systems:

BiOWiSH™ can be dosed in any unit of the waste water treatment plant (WWTP) with existing biology. The ideal dosing point is the grit removal chamber (or any equalization chamber upstream of the primary clarifiers). Dosing early into any unit will maximize HRT and provide ideal C:N for the BiOWiSH™ microorganisms.

Though BiOWiSH™ can be easily applied as a solid or liquid, liquid dosing is best for all WWTPs. Start with a shock dose that is 2-5 times stronger than normal dosing (0.1-0.5ppm). BiOWiSH™ products should be dosed continuously into the effluent stream.

Biological Nutrient Removal:

BiOWiSH™ microorganisms can eliminate nitrogenous loading via heterotrophic pathways. This helps improve nitrogen removal from wastewater without adding any cost or process modifications to the existing treatment system.

Odor:

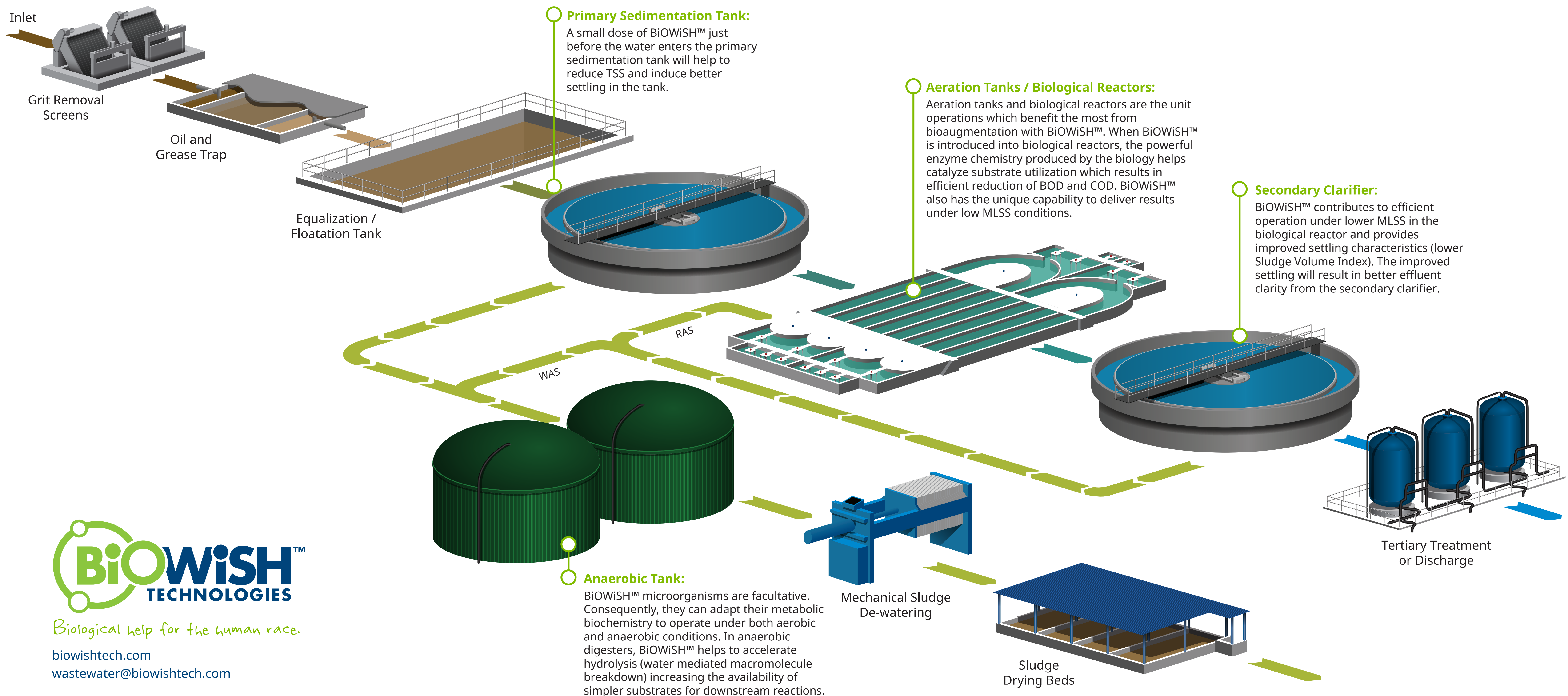
When added to the inlet or collection system, BiOWiSH™ provides odor control throughout all downstream treatment stages, including solids and effluent. Odors are removed (rather than masked) through the enzymatic transformation of volatilized organic compounds (VOCs) into inert odorless compounds.

Sludge Management:

BiOWiSH™ helps reduce the total solids content by effectively working on TSS, TDS, and TVS. This results in reduced sludge generation from the treatment system. BiOWiSH™ is a great option to cut down the cost of handling and transporting sludge.

Energy and Cost Savings:

BiOWiSH™ can help reduce operating expense and energy consumption in WWTPs in several ways. BiOWiSH™ not only maintains effluent water quality, but allows the system to operate at lower MLSS and higher F:M ratios. In addition, the implementation of BiOWiSH™ does not require any changes of plant infrastructure. BiOWiSH™ is shipped ready to dose.



Biological help for the human race.

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