

ValorSabio | Solutions

http://www.valorsabio.com/Jet_Loop_Pro.html

JET-LOOP PRO[®]:

For landfill leachate treatment:

Our design for landfill leachate is a combination of our JET-LOOP SYSTEM, operating as chemical and biological treatment, and the addition of carbon powder and a mix of zeolites with specific bacteria strains.

This tested and demonstrated system can reduce BOD from 20000 down to 20 mg/L. Simultaneously, the activated powder and the Zeolite are responsible for the removal of recalcitrant and hazardous molecules present in the leachate raw wastewater. These molecules are usually inhibitory for the normal biological operation, thus, their enhanced removal by this combination will promote the complete BOD and COD load treatment.

The PAC and Zeolite dosing will be comprised between 20 ppm and 200 ppm, depending on the leachate composition and concentration.

For Pharmaceutical wastewater treatment:

We tested the JET-LOOP PRO with pharmaceutical wastewater as possible biological treatment. The tests show clearly the excellent performance in very high BOD and COD removal, even in the presence of very high inhibitory molecules, such as residual antibiotics.

The chemical oxidation capacities from the JET-LOOP SYSTEM enhanced with enriched oxygen aeration and the use of thermophilic operation temperatures, proved to be a very effective and efficient solution.

For Food-Industry wastewater treatment:

Several food industry wastewaters have been treated with the JET-LOOP PRO with great success.

The application of percolation filters for final wastewater clarification or alternatively the use of UF membranes, show a high quality treated effluent, with good conditions for water reuse.



For Hazardous and Bioremediation wastewater treatment:

The JET LOOP PRO special aeration design combines perfectly with the requirements for injection and strong oxidation with pure oxygen, Ozone or Chlorine dioxide.

The proven high efficiency in the oxidation / chemical reaction show that the JET-LOOP PRO is the best available technology (BAT) for the most difficult hazardous substances and molecules treatment in a solution/ wet case.

If you have a special case, don't hesitate in contact us. We will be able to perform and run bench scale tests, determine the efficiencies, kinetics and important parameters that are the base for a solid engineering project and good solution application.