

We have innovated a novel process called the LeachBuster® for treatment and remediation of Tannery Wastewater without the need for biological, chemical, electrical or other multistage processes.

The LeachBuster® system can assist you in addressing your current and future issues with the disposal of tannery wastewater directly at your site in a very timely manner (in weeks rather than months or years). Some of our client list include leading companies like: JBS USA, Tyson Foods, Cargill and Twin City Tanning (TCT).

Please review the following and let us know if you wish to evaluate the applicability of this technology to your tannery plant. We normally request liquid sample (approx. 50 gallons) sent to our lab where we can treat it with our LeachBuster® system and return the treated sample for your evaluation and analysis through a third-party lab.

Here are some of the features of the LeachBuster® system for your review:

- 1) The process is a single stage filtration system which can accept any wastewater with varying levels of contamination (Chemical Oxygen Demand, COD of 1000 to 120,000 mg/l) and produce effluent with varying levels (COD<5mg/l).
- 2) It can produce up to 13 different levels of cleaning by removing particles sizes ranging from 400,000 Daltons (MF) to 400 Dalton (Ultra-Pure) and everything in between (UF, NF and RO) without any pre-treatment or staging.
- 3) It is applicable to a wide range of wastewater streams ranging from municipal wastewater (sewage) to extremely chrome tanning and landfill leachate produced by thermal reactions.
- 4) The system is compact and has a very small footprint. For example, for a 100,000 gallon per day (gpd) system the total building requirement is 24' x 36' x 12' (H).
- 5) It is totally enclosed and the only time the waste is exposed to the air is when it is completely treated. No air emissions or other secondary waste.
- 6) It removes and destroys pathogens such as bacteria, fungi, viruses and other organisms without the need for disinfectants.
- 7) No possibility of producing THMs
- 8) Pre-assembled in the factory for fast installation at site (within weeks) for urgent projects
- 9) No large excavations or structural work required thus minimum environmental disturbance which may eliminate the need for Environmental Impact Studies
- 10) No odor or noise nuisance, therefore it can be zoned in a residential or commercial area.
- 11) Fully automated and requires no certified operator. It only requires one or two hours of operator attention per day. The system can be remotely accessed using a laptop or a smart phone.
- 12) It is modular and scalable thus there is no need for oversizing to meet future demands. Simply add more modules as the need grows
- 13) No consumables such as chemicals, cartridge and other secondary wastes except a small amount of disinfectants. Only two streams are generated. Clean water and sludge
- 14) Applicable to a wide range of flows ranging a few thousand gallons per day to several million gallons per day
- 15) Minimal maintenance. Only a few pumps and valves need to be maintained
- 16) Uses less energy to achieve self-cleaning, offers uninterrupted operation without chemical suspended and dissolved solids are separated down to their smallest molecular degree