

Fluidized Bed Reactor

Wastewater and Groundwater Treatment Systems

Envirogen Technologies, Inc. offers microbiological solutions that result in high-performance bioreactor systems engineered to eliminate even recalcitrant chemicals from aqueous streams, providing high-quality, potentially recyclable water.

For a broad range of influent flow rates and contaminant concentration levels, our fluidized bed reactor (FBR) system is often the most economical treatment choice. With aerobic, anaerobic and anoxic designs available, systems have been successfully operated at ranges from 5 to 6,000 gallons per minute while simultaneously providing high performance at low capital and operating costs.

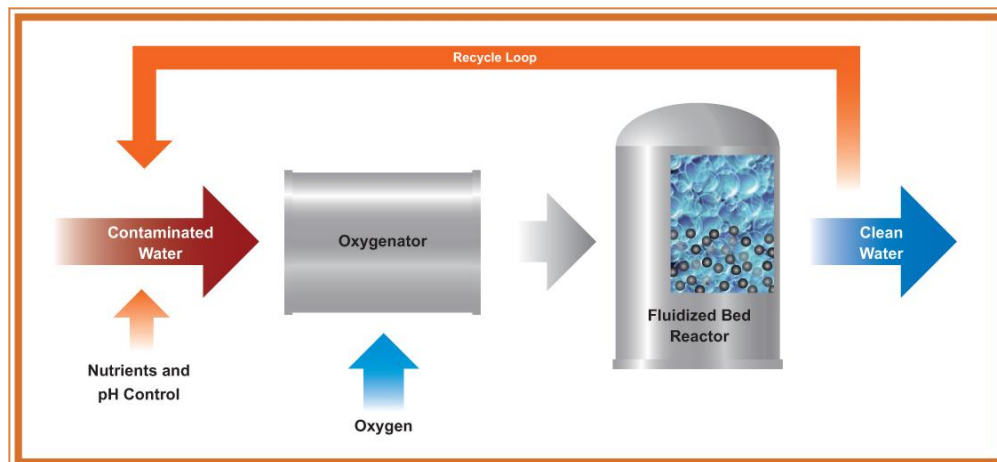


FBR system treating aniline- and nitrobenzene-contaminated wastewater in New Jersey. This technology has been certified by the State of New Jersey's DEP Innovative Environmental Technology Certification Program.

Whatever the problem – chemicals, aromatics, alcohols, ketones, chlorinated solvents, PAHs, hydrocarbons, BTEX, perchlorates or nitrates – our FBR system handles high flows at low cost with typical treatment efficiencies of 99% or higher.

ENVIROGEN TECHNOLOGIES ADVANTAGE

- Cost effective (low capital and O&M costs)
- Minimal generation of biosludge
- Variety of contaminants treated
- High-quality effluent produced
- Small footprint
- Minimal operator labor required
- Capable of handling both hydraulic and organic shock loads



Simplified Schematic of Once Through Aerobic FBR