

Med-San[®]

Fluid Waste Treatment Technology

Innovasan

Abstract: Med-San[®] is a continuous flow, volume scalable technology solution for the disinfection and denaturation of fluid waste streams containing biological infectives, organic pollutants and contaminants of emerging concern.

Four Stages:

Pre-Treatment
Metal Ion Infusion
Wet Oxidation
Post-Treatment

Applications:

Fluid Medical Waste
Black and Grey Water
Agricultural Runoff
Industrial Waste
Misc. Fluid Waste



Key Research Accomplishments:

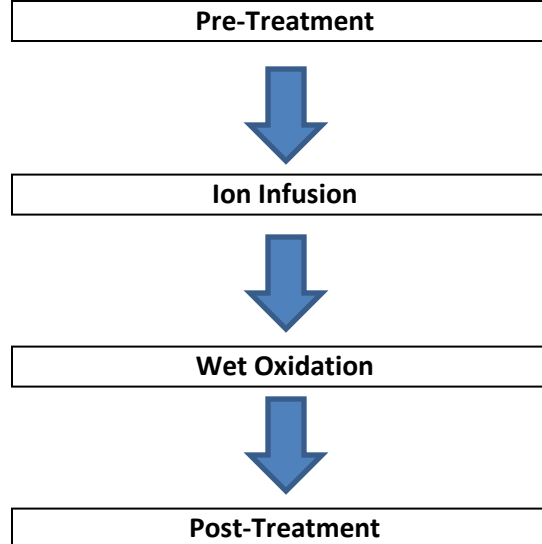
- Developed patented pre-treatment formula to prevent waste stream bulk volume behaviors.
- Completed pre-treatment proof of principle (PoP).
- Completed PoP for Ion Infusion.
- Completed PoP for Wet Oxidation.
- Completed proof of principle for each module in Med-San[®] treatment technology.
- Potential consolidation of wet oxidation and Ion infusion modules.

Objective/Hypothesis:

Med-San[®] will reduce global water pollution from biological infectives, persistent organic pollutants and contaminants of emerging concern by destroying the pollutants at their source before they reach watersheds.

Expected Benefits:

- Reduced water pollution on a global scale.
- Mobile systems for isolated decontamination needs.
- Paradigm shift in the way fluid medical, industrial, and agricultural waste are treated and disposed of in addition to grey and black water.



Relevance:

Med-San[®] is a disruptive technology that provides a solution to the environmental and human health hazards created by current fluid waste disposal and treatment practices faced by both military and civilian populations around the world.