



Hospital Wastewater Treatment

The Sionix Solution



The Problem

- U.S. Hospitals use an average of 140,000 gpd
- Estimate for L.A. County is 319 gpd of wastewater produced per bed per day (70% occupancy)
- Hospitals discharge wastewater containing chemicals and microbial agents into municipal wastewater treatment facilities
- Many of the contaminants are resistant to normal wastewater treatment
- Hospitals exclusive source of iodinated X-ray contrast media and other pathogens



Cost - Costs vary from state to state and county to county

L.A. County Example

- Wastewater Treatment Surcharge Program:
This is an annual fee for wastewater collection, treatment and disposal services. All industrial companies discharging more than one million gallons of wastewater to the public sewerage system during the fiscal year (July 1 through June 30), or have high strength waste, are required to file and pay an annual Wastewater Treatment Surcharge Statement.

- Connection Fee Program:
This fee is used for capital improvements and is levied on all industrial companies who impose a new burden on the sewerage system or those companies who increase their discharge by more than 25 percent. For those companies newly connecting to the Districts' sewerage system, this fee must be addressed prior to making the connection. For those companies increasing their burden on the sewerage system, a connection fee is paid at the time of the increase



Sionix

- Water treatment company based in Los Angeles, CA
- Provides customers with portable water treatment and water reclamation solutions that co-locate with the source of contamination.
- Supports the environment in responsible ways to reduce energy consumption and recycle water, without producing greenhouse gas emissions (GHG)
- Caters to customers in need of scalable, modular water solutions
- Extremely cost-effective water treatment solution for any entity faced with organic water contamination issues
- Fully reporting company (SINX: OTC BB)



The Solution

- Sionix accelerates a natural process that could take Mother Nature decades or centuries to accomplish
 - The two most important constituents to a water treatment system are Sun and Air. In the Sionix method of water treatment, the role and efficacy of air is maximized, resulting in a minimal need for the use of energy consuming UV

Sionix MWTS - Mother Nature's Assistant
- Sionix provides the means and capability to recycle and reclaim contaminated water, for multiple uses, with the convenience of 'one-stop shopping.' Sionix can be the start to finish source and ultimately bridge your operation's needs with the needs of the environment.
- Sionix systems use Dissolved Air Flotation (DAF)
 - Technology Creates micron size bubbles (compared to historical sizes of 50+ microns. The bubbles flocculate the contaminants and permit the formation of a cohesive mat. The mat rises and bonds with or traps organic contaminants, which are then skimmed off the surface.
- Elegant technology in use for almost 100 years – Sionix has revolutionized it.
- Eleven patents granted, five patents currently active, and three patent applications on file for advancement of DAF and evaporation technology
- Not a chemical-based treatment
 - Eliminates chlorine-resistant contaminants
 - Avoids chlorine byproducts such as Trihalomethanes
- Our standard MWTS produces approximately 400,000 gallons of treated water per day, but can range from 50K to 1.2MMGPD.



Why Sionix

- Proven: Field Proven, Commercialized Product
- Units co-locate with the source of contamination.
- Inexpensive: Economical, Easily Maintained
- Easy to use: Portable, Mobile, Expandable, Upgradeable
- Third Party Validated: Under agreement with PACE and PERC
- Rapid Deployment: A MWTS can be installed in 24-72 hrs and fully commissioned in 3 to 6 weeks depending on application
- Diversely Effective:
Our standard MWTS produces approximately 400,000 gallons of treated water per day, but can range from 50K to 1.2MMGPD.



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