

KLARTEK LLC

AUTHORIZED USER OF THE CLEANBLUE WATER TECHNOLOGY

THE CLEANBLUE STORY

CONVERTING UNCLEAN WATER INTO A CLEAN RESOURCE USING INNOVATIVE MODULARIZATION



KlarTek can offer you something most other companies cannot—unsurpassed water and wastewater treatment technology at a very competitive cost.

Using the concept of modularization and advanced process control, the CleanBlue technology integrates demonstrated unit treatment processes into an advanced design. The end result — the influent water can be treated to the quality that meets your needs, whether it be for commercial use or potable use.

KlarTek can effectively treat raw sewage, surface water, groundwater, industrial wastewater, produced water, saline water, and even potable water.

While some KlarTek applications may require a sophisticated set of multiple modules, others do not. The flexible technology features a number of treatment trains, the initial train usually being basic filtration with heavy solids screening and proprietary oily-water separation and intake water filtration. Particles down to 1 micron (or smaller, if needed) are filtered out in a matter of minutes.

Depending on the customer's effluent quality requirements, the initial train is generally followed by proprietary electro-flocculation and clarification, and then activated carbon, polishing filtration, reverse osmosis, disinfection, ozonation, oil or salt recovery, or other technologies.

As an example of our innovation, activated carbon treatment is effected using in-place regeneration without the use of high temperatures.

The technology can be used either as a stand alone or a supplement to an existing system.

For example, the technology can be coupled with reverse osmosis units to remove solids and other contaminants to eliminate fouling typically associated with desalination. The result—the technology converts “dirty salt water” into “extremely clean salt water,” and reverse osmosis can be used more effectively to make it drinkable.

Typical treatment costs can be substantially lower than existing technologies. Unit treatment processes are designed and optimized for improved contaminant removal efficiency, low energy requirements, rapid treatment time, and reliability – with resultant cost savings.

With throughput capabilities of 5 to more than 50,000 gpm, the technology can be integrated into fixed-base commercial operations, or packaged onto a mobile, trailer-mounted unit for sites with limited access, or for needs requiring rapid deployment. Or, coupled with solar systems for remote locations.

For example, the RF-100 unit is small enough to fit on an 8 x 20 ft trailer, yet treats up to 144,000 gpd, ideal for transportable and emergency treatment systems.

So, there you have it.

The CleanBlue edge.

The KlarTek way.

CANDIDATE INFLUENTS

- ◆ Raw Sewage
- ◆ Surface water
- ◆ Groundwater
- ◆ Industrial wastewater
- ◆ Produced water
- ◆ Saline and brackish water
- ◆ Semi-potable water
- ◆ Potable water

CANDIDATE CONTAMINANTS

- ◆ Raw Sewage
- ◆ Oil and Grease
- ◆ Organic Compounds
- ◆ Chlorinated Solvents
- ◆ Pesticides and Herbicides
- ◆ Fertilizers
- ◆ Toxic Metals
- ◆ Radionuclides
- ◆ Particulate Matter

CANDIDATE APPLICATIONS

- ◆ Food and Beverage
- ◆ Oil and Gas Production
- ◆ Heavy Industrial Sites
- ◆ Manufacturing Facilities
- ◆ Commercial Facilities
- ◆ Environmental Remediation
- ◆ Pretreatment and Polishing
- ◆ Desalination Pretreatment
- ◆ Municipalities and Utilities
- ◆ Transportable Water Supplies
- ◆ Emergency Water Supplies



FROM RAW SEWAGE TO DRINKABLE WATER

... IN TEN MINUTES

Photograph taken at the CleanBlue Technology Demonstration Site. Raw sewage, motor oil, gasoline, ethylene glycol, shampoo, sugars, and other contaminants were added to the influent system. After 10 minutes of treatment, the guests were enjoying drinkable water, with a quality equivalent to bottled water.



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