



### Mission

**Complete Water Purification with Sustainable Economic & Environmental Advantage**

### Company

Purifics is a water purification technologies firm and knowledge based business that has been providing Chemical Free Water Purification System solutions internationally since 1993. The credibility of our products was established by solving difficult water challenges for the nuclear industry. Over the past two decades, we have expanded the scope of our business to include Municipal water purification requirements. However, our basic business discipline continues to this day with a proven track record of solving water purification problems effectively, with robustness and durability, typically at a lower cost and smaller footprint.



Markets Served

### Why Treat Water When You Can Purify?

Treatment modifies the problem. Purification removes the problem.

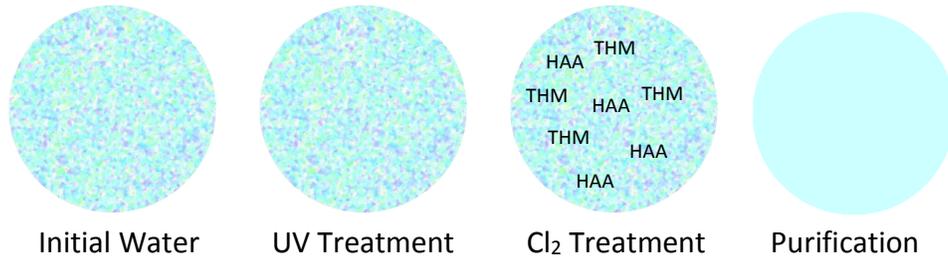
Treatment involves chemical addition to the water with unknown or unacknowledged health impacts (e.g. chemical stabilizers). Similarly, UV Treatment merely prevents some bacteria and virus from reproducing. In both types of treatment, contaminants (or added contaminants) and pathogens remain in the water. The alternative, Purification, removes the problem!

### Purification Capability

Purifics has developed the most comprehensive Chemical Free Water Purification Process. Our unique technology innovations combine the best of Fifth Generation Ceramic Ultra-Filtration Membrane Technology (**Cuf**), Chemical Free AOP+ (Photo-Cat), and DeWatering Recovery System (DeWRS) (Zero Liquid Discharge) with Complete Process Automation. **Cuf** is a durable and robust SiC hydrophilic membrane process that filters contaminants, reduces complexity and chemicals, and eliminates membrane replacement and costs. Photo-Cat is the only photocatalytic AOP+ that destroys all chemicals, without adding chemicals. DeWRS achieves zero liquid discharge and recovers product in a thick concentrate for mineral reuse or direct to landfill.

Purifics systems purify water by removing: Chemicals, Metals, Turbidity, Bacteria, Viruses, Oil, Particulate, TOC, BOD, COD, DOC, Color, Taste, Odor, Hardness, TDS, EDCs, PPCPs, TSS, TTHM & HAA Precursors. Refer to DOC3001 for more details.

## Treatment vs Purification Visualization



## Equipment Solutions

Purifics develops, designs and manufactures systems that eliminate your water challenges with technologies that promote sustainable development, eliminate risk & hazards, simplify, prevent waste and allow product recovery. The reduction in complexity, unit operations, chemicals and labour provide dramatic reductions in lifecycle cost (CapEx and OpEx). Purifics systems are produced to client requirements, standards and certifications in a variety of municipal and industrial markets.



## Bench & On-Site Testing

Purifics facilitates and expedites Bench & On-Site pilot testing using mobile water purification systems. Bench tests provide clients the opportunity to validate the feasibility of purification at no charge. On-site pilot test program consists of a series of test runs at various operating parameters to determine optimal purification rates and cost structure. This allows Purifics to evaluate process performance to determine full-scale design recommendations. Refer to DOC2029 & DOC3303 for more details.

## Customer Satisfaction is our Goal

In every project Purifics takes on, our goal is to solve the client's unique set of problems. Our after sales World Wide Support (WWS) program is flexible and tailored to each customer's requirements. We believe in customer care and satisfaction, and striving to achieve this is embedded in our approach to doing business. Purifics has an installed customer base of over 60 **Cuf**, Photo-Cat and DeWRS system installations globally. Our innovative technologies, our approach to problem solving, and our focus on customer care have resulted in a multitude of satisfied customers in the U.S., Canada, Europe and Australia.



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