



# Waste Treatment A FLUIDCARE™ Service

## Reduce Expenses By Improving Waste Treatment

Thousands of manufacturers are currently burning money and time hauling waste or treating it using rigid methods that simply don't work for their facilities. Now, wastewater discharge doesn't have to be a big...well, waste.

Houghton International's FLUIDCARE™ waste treatment services shed light on what is the most cost-efficient and effective treatment system for you. As part of the industry's #1 chemical management program, our waste treatment services afford you industry specialists who are innovators in the field of waste treatment. They include chemical engineers, process technicians, environmental specialists, and PhDs – all experienced in the world of manufacturing.

Our FLUIDCARE experts consider every manufacturing facility individually, knowing that not any one waste treatment system is perfect for every plant. We scrutinize your plant from front to back, analyzing your chemicals, processes, end product, applicable environmental laws, and current waste treatment methods as the first

step towards improving environmental performance. Then, we consider the full battery of waste treatment tools available from conventional chemical, biological, and ultrafiltration systems to the latest recycling technology. We configure the most cost-effective treatment method(s) to comply with your sewer authority and clean air regulations, always driving to reach your zero water discharge and zero solid waste-to-landfill goals.

### Looking Beyond The Pump

A successful waste treatment program is always the result of a combined effort of managing the chemicals *and* managing the waste stream. While many consultants just look at the end of the pump or waste stream exclusively, Houghton FLUIDCARE specialists analyze the chemistry up front as well as the entire waste stream. With more than 130 years of industrial fluids experience, we understand the processes and chemistry that generate the waste. Only Houghton supports you completely for optimum results.

In addition to helping you find the right treatment method(s), Houghton FLUIDCARE experts help with the waste treatment planning process and recommend appropriate products and processes

for each type of waste treatment system at your plant. Again, our diverse range of specialists enables us to look at every aspect that affects waste treatment, from the big picture to the smallest details. We know that even a minor change in the production process or products used can make the difference in compliance and cost savings.

### What Is FLUIDCARE?

*FLUIDCARE is a comprehensive chemical management program for manufacturers who want to reduce – and avoid – costs, improve process control, and enhance finished-product quality. The secret to its success is that it rewards process control rather than chemical usage. Houghton employs true chemical management experts who start by baselining your cost per production unit, and then systematically take steps to reduce that cost. By improving part quality and increasing efficiency, FLUIDCARE enables you to provide your customers with a better end product at a more competitive price.*



## More Options, More Flexibility, More Savings

Do you know how many waste treatment options there are available to you today? Dozens. Over the last decade, engineers have been rapidly developing improved waste treatment technologies that cost much less than contract hauling. "And, there have been such leaps in technology lately that some of the newer systems may be the last system a company ever has to install," says John Burke, director of engineering services for Houghton FLUIDCARE. Some new options include:

- Chemical Treatment (Batch Processing, Continuous Flow, or Combination) – salt splitting, polymers, coagulants, or combination
- Membrane Treatment – multiple types, but most common is ultrafiltration
- Thermal Evaporation
- Biological Treatment
- Mechanical Vapor Compression Distillation (or Recompression)
- Combinations of any of the above technologies

All of these various on-site waste treatment options have their pros and cons, depending on your situation. For example, chemical treatment is typically a very cost-effective option, but the effectiveness varies widely from product to product. Evaporation virtually eliminates wastewater and is more tolerable of solids but is energy-intensive and

could lead to compliance issues with clean air laws.

Houghton FLUIDCARE waste treatment experts have the experience and unique skill set to analyze your situation and recommend the most cost-effective system or combination of systems that allow you to comply with all regulations. We'll also make sure that your waste treatment system allows for product flexibility. Some systems can severely limit a facility to one product or another. So, rather than being continuously rejected by your environmental team every time you want to consider a new fluid, we recommend a solution that is flexible for your changing needs.

While Houghton FLUIDCARE's waste treatment services are primarily focused on liquid waste, we also analyze solid, hazardous, air emissions, and any other type of waste stream as part of our program.

### Guaranteed Success From A Chemical Management Leader

Houghton is one of the few chemical managers experienced in the diverse specialty areas needed to provide extensive waste treatment support. And, with the support of partners plus our 32 ISO-registered manufacturing facilities worldwide, we have all the resources needed for planning, launching, and managing successful large-scale chemical management programs that include waste treatment support. All this amounts to one thing: Guaranteed Improvement. We guarantee improved

waste treatment performance when allowed a broad scope of management responsibilities.

FLUIDCARE waste treatment support benefits you with:

- Cost-savings from increased efficiency
- Shift in accountability – we make ourselves accountable for waste treatment performance, costs, and timelines by running, managing, and reporting on the system
- Reliable off-shift operation with advanced automation
- Improved process control with operational standardization
- Faster response to questions/problems with in-house laboratory support
- Improved environmental compliance by aligning with ISO-14001 objectives
- Reduced regulatory/administrative hassles by recycling treated water
- Elimination of non-core responsibilities – we'll Design-Own-Operate-Maintain your waste treatment operation so you can focus on your company's core operations

Find out the many ways our customers are benefiting and how to join them by contacting a Houghton FLUIDCARE representative or visiting [www.houghtonfluidcare.com](http://www.houghtonfluidcare.com).



## Houghton International, Inc.

Madison and Van Buren Aves., P.O. Box 930, Valley Forge, PA 19482-0930  
(610) 666-4000 Fax: (610) 666-1376 Web: [houghtonintl.com](http://houghtonintl.com)

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