

## Case Study: AquaPure

# Tank side assistance reduced zinc and improves wastewater process.

## The Challenge

Established in 1981, our client manufactures 60,000 - 70,000 pounds of screws daily that are carried in Lowe's and Home Depots nationwide.

Not surprisingly, the philosophy of this market leader is one of continuous improvement. However, sometimes changes for the better



**Treating**  
the Hard to Treat

## Executive Summary

**To solve a client's wastewater challenge, Hubbard-Hall built a custom treatment plan, including:**

- Tank side assessment of the current problem
- AquaPure 100 coagulant
- AquaPure P 601 metal precipitant
- AquaPure FW polymer flocculant
- Jar testing and process training



**The absence of jar testing by operators made them unaware that process changes up-stream were impacting their wastewater.**

also have consequences. When the company went to a new acid-pickle bath pre-treat system on its paint line, the result downstream was far too much zinc in its wastewater effluent.

They knew they had to change their wastewater chemistry, and that's when they called Hubbard-Hall.

AquaPure HQ	
HMS RATING	
Health	2
Flammability	0
Reactivity	0
PPE	B

NaOH 25%	
HMS RATING	
Health	2
Flammability	0
Reactivity	2
PPE	B

AquaPure FW	
HMS RATING	
Health	1
Flammability	1
Reactivity	0
PPE	B

Hydrochloric 5%	
HMS RATING	
Health	3
Flammability	0
Reactivity	0
PPE	B

## The Approach

We led a team of wastewater treatment experts through a process that began by going on-site and tank side.

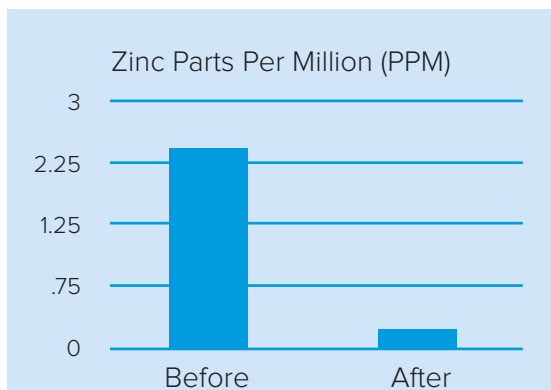
“There’s nothing like being there to get to the bottom of things,” says Hubbard-Hall’s David Joyce, “I pulled a sixteen-hour shift. Nobody went near that clarifier. It ran crystal clear that day.”

Initially, Hubbard-Hall recommended a custom recipe built from three products:

- **AquaPure 100, a custom-blended inorganic coagulant**
- **AquaPure P 601, a metal precipitant**
- **AquaPure FW, a polymer flocculant in liquid form**

Along the way Hubbard-Hall recommended, implemented and trained the company to do jar testing to help them maintain the process. It was an idea they liked so much that it became a requirement for all shift operators.

## The Outcome



In the end, Hubbard-Hall was able to help the company reduce the level of contaminants, principally zinc, from 2.3 ppm to 0.23 ppm, well below the regulated requirements of city and state agencies.

In addition, the company’s willingness to include us as a partner in problem-solving allowed us to educate them on processes that are helping them properly maintain their new wastewater treatment process today.

“Having Hubbard-Hall onboard is great. They are always available and willing to come tank side to help us solve problems.”

**Mark Hortie,**  
E-Coat Process  
Supervisor  
OMG Roofing Products

## Our people. Your problem solvers.

Expertise you can trust. 32% of Hubbard-Hall associates are in tech support, customer service or sales. This means that you get answers fast while the rest of our team gets your order delivered on time and in spec.

**HubbardHall.com**

TT-0920

**Chemistry and Expertise** for  
Manufacturing’s Toughest Problems



563 South Leonard Street, Waterbury, CT 06708  
Phone: (800) 648-3412 • HubbardHall.com



**Cleaning**  
the Hard to Clean



**Finishing**  
the Hard to Finish



**Treating**  
the Hard to Treat