

# Experiencing Low Throughput? RTI Can Diagnose and Restore Your Resin

If your ion exchange system is producing less water than it used to, you're not alone. **Low throughput** is one of the most common—and costly—issues in industrial water treatment. While it's easy to suspect mechanical failures or regeneration problems, a frequently overlooked cause is **organic fouling**, particularly in anion resins.

Fortunately, this issue is **diagnosable and reversible**.

At **Recirculation Technologies LLC (RTI)**, we help you uncover the true cause of system performance issues—and offer a proven, cost-effective solution to restore resin efficiency without immediate replacement.



## Step 1: Pinpoint the Problem with RTI's Resin Lab

Before assuming a costly equipment failure or resin replacement, start with testing. RTI's in-house **resin laboratory** can determine if your throughput issue is due to resin fouling or another underlying factor.

### Our Three-Step Testing Process:

- 1. Resin Condition Analysis**  
We assess total exchange capacity, moisture content, and visible fouling indicators.
- 2. Controlled Sample Cleaning**  
Your resin is cleaned using **one of RTI's proprietary protocols**, developed specifically for removing organic contaminants.
- 3. Mini-DI Throughput Comparison**  
The "before" and "after" resin samples are run in a controlled mini-demineralizer system to compare performance.

**If the cleaned resin shows increased throughput**, it confirms that **organic fouling—not mechanical failure—is to blame**.



## Step 2: Restore Performance with RTI's On-Site Cleaning

Once organic fouling is confirmed, RTI can perform **on-site resin cleaning** using our specialized mobile systems.

Our cleaning process is safe, effective, and proven to:

- **Remove internal organic fouling**
- **Restore resin throughput to near-original levels**
- **Lower chemical and energy consumption**
- **Extend the resin's service life**, postponing costly replacement

This service is performed with minimal system disruption and can be completed during scheduled downtime or plant maintenance windows.



### Why Choose RTI?

**Recirculation Technologies** has over 30 years of experience in ion exchange resin restoration. We offer:

- **Fast, lab-based diagnostics**
- **Proprietary cleaning technologies** tailored to fouling type
- **Mobile on-site service teams**
- **Trusted performance in power, chemical, and industrial plants nationwide**

We don't just treat symptoms—we identify root causes and restore your system to full efficiency.



### When Should You Test Your Resin?

You should consider RTI's resin testing service if your plant is experiencing:

- Unexplained drops in water output
- Increasing differential pressure across beds
- Poor or inconsistent regeneration results
- Aged resin not performing as expected

Early detection helps avoid unnecessary replacement and keeps your operations on track.

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## **Let's Restore Your System—Starting with a Sample**

**Don't replace resin until you've tested it.** RTI helps you save time, reduce waste, and get the most out of your existing resin investment.

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