



Reference Project

Optimizing Wastewater Treatment
in Food Manufacturing

CarboNet ●●

A food manufacturer faced constant surcharges as unreliable chemical suppliers and understaffed make-down disrupted wastewater operations.

The problem: A food manufacturer in Northern California struggled to staff make-down operations which, when combined with an unreliable chemical supply chain, led to wastewater that regularly breached permissible levels of suspended solids.

The solution: While SimpleFloc was initially discussed to solve the issue of suspended solids in the waste stream, the conversation broadened to include make-down itself: the materials, the staffing, and the babysitting required to deal with FOG water's high variability.

↳ **Make-down is a relic** of treatment from the 1970s that leads to CAPEX, OPEX, and emission overages. It's core ingredient—polyacrylamide—has weak bonds that create inconsistent flocs, forcing teams to overdose and, in turn, create flocs that are too wet or spongy—gumming up filters and presses that lead to work stops, swap outs, and shut downs.

↳ **SimpleFloc**, in contrast, requires no make-down and plugs directly into the lines, cutting out make-own equipment, maintenance, dosing schedules, and adjustments.

The result: The switch to SimpleFloc had an immediate impact on the water and the P&L:

- ↳ 89.6% less PAM
- ↳ 18% less suspended solids
- ↳ Wastewater surcharges greatly reduced

The bottom line: Just as with chemistry, water treatment decisions have primary and secondary consequences that aren't always factored into the big picture or the bottom line.

↳ **By adding SimpleFloc**, the manufacturer was able to remove an entire process, along with the associated costs and inefficiencies that were slowing them down and hitting the P&L.

RESULTS

- 89.6% less PAM
- 18% less suspended solids
- Wastewater surcharges greatly reduced
- Boosted crew efficiency

CarboNet: As freshwater becomes increasingly scarce and regulated, companies from energy and mining to food and beauty turn to CarboNet to reduce, recycle, and renew the water they need to compete.