



How a Chocolate Manufacturing Added Reliable Solids Removal Without On-Site Dewatering



Background & Challenge

A chocolate manufacturing site operated its wastewater treatment plant **without any on-site thickening or dewatering** step, relying instead on **decanting and liquid sludge hauling**.

This limited solids management efficiency and made it difficult to **remove solids** consistently under varying operating conditions.

The site needed a **simple and reliable solution** to **improve solids removal** without adding operational complexity, while ensuring it could be easily integrated into daily plant operations.

Orege's Solution & Service

Orege deployed a mobile **SLG-F** and a **vertical-press configuration** (named DTZ) to introduce an on-site solids-removal step.

The objective was to validate both **treatment performance** and **operational ease** under real plant conditions.

Beyond equipment, Orege ensured **seamless integration** into the existing process and supported the transition to autonomous operation.

Plant staff quickly took ownership of the system, confirming **ease** of use while generating feedback for future **scale-up** and **implementation**.





Results and Benefits

Orege's solution demonstrated that effective on-site **solids removal** could be achieved with minimal operational impact.

The system consistently produced **dewatered solids** between **18% and 20% total solids**, while delivering good filtrate quality with **TSS levels** between **0.2 and 0.8 g/L**, highlighting efficient solids capture and improved separation performance.

The unit was successfully operated by plant personnel throughout the campaign, demonstrating **ease of use** and strong operator acceptance.

This confirmed not only the **technical reliability** of the solution but also its suitability for day-to-day operation without adding complexity or requiring additional resources.

Overall, the solution provided a clear path toward improved solids management.

By reducing reliance on liquid hauling and improving control over suspended solids (TSS) within the treatment process, the site gained **greater operational flexibility** and a more **robust, scalable approach** to long-term wastewater management.

Orege delivered a compact, low-footprint solids removal solution that improved performance without increasing operational complexity