

## Challenge

### Background

A wastewater treatment facility has 10 RAS (Return Activated Sludge) solids handling pumps. These pumps have been sealed using packing and replacement sleeves for several years with major leakage and premature sleeve wear (due to packing abrasion).

The customer was looking for an easy way to install solution that would increase Mean Time Between Failure (MTBF) and reduce downtime/repair costs.



*Sludge around the base of the packed pump.*

## Solution

### Product

The packing was replaced on one trial pump, with a **Chesterton® 442 Split Seal (4.500")** with RSC/RSC faces and FKM elastomers. A **SpiralTrac®** split active throat bushing was also installed to reduce flush water requirements.

This solution was proposed for easier installation (no need to dismantle the pump), longer run time, and greater MTBF.



*Chesterton 442 (4.500") with SpiralTrac.*

## Results

### Increase Reliability

After a few months of leak-free operation, the customer was very pleased with the performance and converted the nine remaining packed pumps with **442 Split Seals (4.000")** with **SpiralTrac units**.

Maintenance, downtime, and the safety issues caused by leakage were greatly reduced.



*Chesterton 442 Split Seal resulted in increased reliability and a reduction in flush water usage.*