**Challenge**

**Background**
An Eimix® mechanical sludge mixer for a wastewater treatment plant had repeated bearing failure due to poor bearing sealing, water contamination of the bearing housing, and subsequent grease washout.

**Goal:** Avoid costs for a total rebuild
- Equipment rental (crane): $3,000
- 4 men x 10 days: $20,000
- Shaft and bearings: $6,000

**Current Cost:** $29,000

**Solution**
- Chesterton 30KC Greased Seal Cartridge with Chesterton 615 High-Temperature Grease (HTG) and Lubri-Cup™ EM; ARC industrial coating on propeller.
  - Bearing isolation accomplished by injecting the Chesterton 30KC with water-and corrosion-proof Chesterton QBT grease.
  - The Chesterton Lubri-Cup™ EM automatic dispenser delivers precise amounts of grease 6X/day.
  - Water and grit is continuously purged from the bearing housing.

**Results**
- 300% longer bearing life
- Longer service life for the mixer
- Longer time between removal and installation of mixers—no safety issues
- Long-term savings

**Cost Breakdown**
- Avoidance of rebuild cost: -$30,000
- Chesterton lubrication/coatings: $2,750
- **Annual Savings:** $27,250

*Eimix® is a registered trademark of Ovivo*

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Greasing hard to seal shaft bearings was unreliable. Annual failure was expensive.

Chesterton Lubri-Cup™ EM and 615 HTG installed.

A new level of reliability delivered by Chesterton solutions.