

Challenge

Goals

- Repair screws and troughs of effluent pumps to return system to specified productivity
- Eliminate waste hang-ups and excessive energy draw

Root Cause

Acidic stock waste had corroded the concrete pump sleeves, causing loss of pump efficiency. Three pumps were required to handle waste stream.

Solution

Preparation

Concrete was grit blasted and rebuilt with rapid set acrylic modified concrete.

Application

1. Prime with **ARC 797** to promote adhesion
2. Apply **ARC 791** and finish
3. Note: Screws were reinstalled 18 hours after application of coatings

Results

Client Reports One Year After Repair

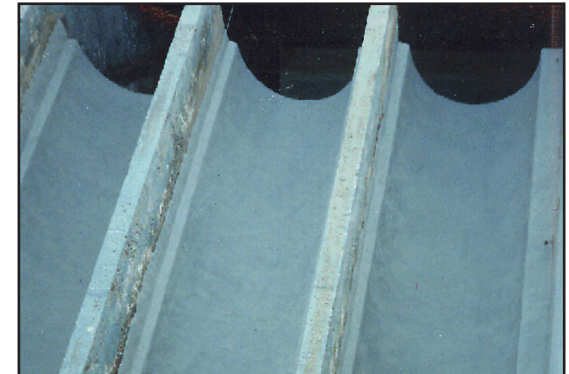
- Effluent movement improved
- Plant reduced operation to 1 pump
- Plant reports 66% electricity savings



Three effluent pumps in operation prior to repair



ARC 791 applied to properly prepared surfaces



All 3 pump troughs coated with ARC 791