

## Challenge

### Issue

Exposed aggregate in sand filter was promoting algae growth leading to increased vessel draining and cleaning

### Goal

- Seal surface and apply coating to reduce algae growth

### Root Cause

Exposed aggregate promotes algae retention

## Solution

### Preparation

- Surfaces grit blasted to CSP3 finish

### Application

- Skim coat of cementitious mortar applied to resurface concrete
- Two coats of **ARC S1PW** applied at 15-20 mil (375-500 µm) in alternating colors

## Results

### Client Reported

- Vessel has been in continuous service for over 7 years
- Algae cleaning can be easily done with low pressure hoses

Cleaning time reduced from 2-month to 3-year saving over 200 man-hours per year



Drained sand filter vessel



Installing ARC S1PW coating



Sand filter in service