

# Nanofique Limited, UK X Denim Textile Plant, L.A.

Turning Textile Wastewater Into High-Quality Reusable Water



## CHALLENGE

- **No on-site wastewater treatment** system.
- **Space constraints** made installing conventional systems impossible (parking area needed for worker safety).
- **New regulations** required compliant discharge leading to added significant penalty costs.
- **Conventional systems:**
  - 8-10 stages
  - Large footprint
  - 2-3 days process time
  - Only 40-60% water recovery
  - Generation of toxic sludge.

## KEY METRICS

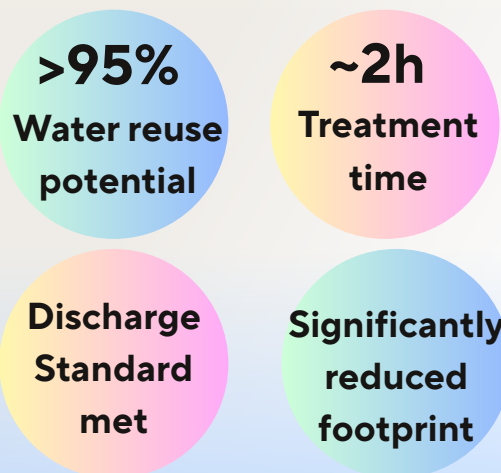
Wastewater generated:  
**240 m3/day**

Textile dye used:  
**Reactive & Denim**

## SOLUTION

- Nanofique Treatment System uses the bionanocatalyst that degrades all dye compositions and mordants
- Uses only 3 steps, produces negligible sludge, fast 2-3 h cycles, and achieves >95% water recovery.
- Catalyst reusable up to 50 cycles

## IMPACT



**90%**  
COD reduction

**72%**  
TDS reduction

**97%**  
BOD reduction

## Nanofique

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## CLIENT EXPERIENCE

- **Treated water matches (or exceeds) the quality of softened water used.**
- **Eliminates chemical consumption required for softening.**
- **Delivers extremely high performance in a minimal footprint that fits their only available on-site space.**