

# NANOFIQUE X ERAK

Transforming ERAK's Wastewater System  
97% Footprint Reduction and >90% Water Recycling Achieved

## The Client

ERAK, TURKEY

DENIM DYES

1350 m<sup>3</sup>/day  
WASTEWATER

## Key Metrics

99% Colour

76% COD

100% TSS

45% TDS

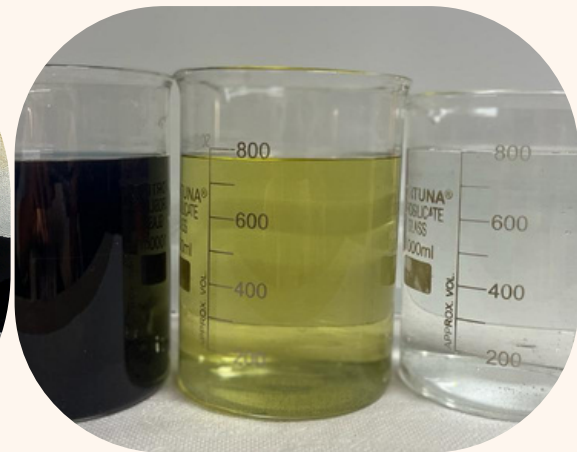
45% Conductivity

## Client Problem

- Current system = **4000m<sup>2</sup>** land
- Costly space for expansion
- Treats **40- 60%** for discharge, only 40% for reuse
- **901,600 kg** sludge/year
- OPEX = **€2.65/m<sup>3</sup>**
- **2-3** days treatment cycle
- Must meet **ZDHC** standards

## Solution

- **97%** footprint reduction
- **>95%** recycled water
- **€54k/year** sludge savings
- OPEX = **€1.84/m<sup>3</sup>**
- **2-3** hour treatment cycle
- **50x** reusable catalyst



## ENVIRONMENTAL IMPACT

- **Negligible sludge**
- Reduced freshwater intake

## BREAKTHROUGH

- Successful TRL7 tests
- **>95% recyclable water** achieved in only 3 processes

## FINANCIAL IMPACT

- **€54k/year** sludge savings
- **97% footprint savings**

## Nanofique

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## CLIENT EXPERIENCE

The recycled water was evaluated and found to meet all required standards, resulting in a high level of client satisfaction with its performance and suitability for reuse.