



Wastewater Testing for the Textile and Apparel Industry

The textile and leather industries face growing pressure to reduce their environmental impact and enhance the sustainability of their supply chains. One critical aspect of supply chain management in these sectors is the scrutiny of hazardous chemicals used in the manufacturing process, which can contribute to water pollution.

Various initiatives have been introduced to address this concern, including the Joint Roadmap toward Zero Discharge of Hazardous Chemicals (ZDHC). This roadmap advocates for the elimination of hazardous chemicals from textile and leather supply chains, promoting their replacement with safer alternatives.



+8,000 chemicals are being used in the fashion and textile industry



20,000 liters of water produce one kilogram of cotton



5,000 gallons of water = A single T-shirts and a pair of jeans



Roughly 20% of global wastewater is produced by the fashion industry



Textile dyeing is the **2nd largest polluter** of water globally



Only 11% of companies are showing an awareness of water pollution across their whole value chain

The ZDHC Roadmap to Zero Program assesses different stages of the value chain and establishes specific modules, guidelines, requirements, and tools. These efforts focus on improving chemical management in key areas to mitigate the environmental impact of textile and leather manufacturing.

CleanChain and UL Solutions have introduced a specialized, integrated approach to wastewater management designed specifically for the textile and leather industry.



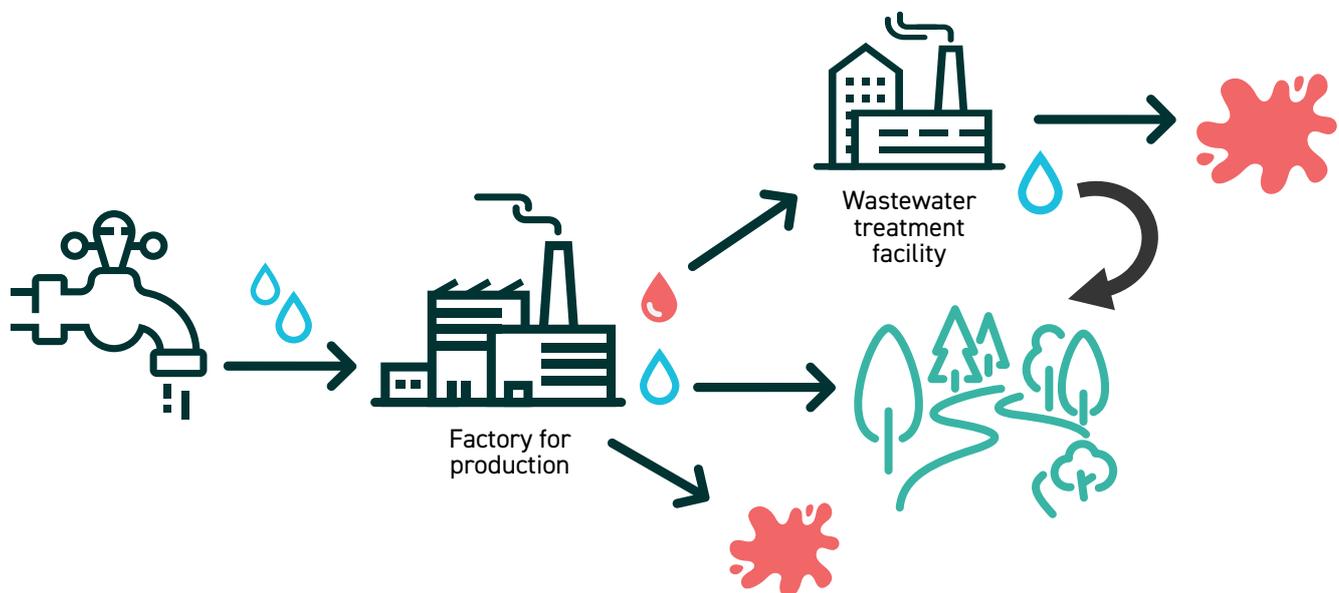
Water in textile manufacturing

Incoming water supplied to a manufacturing process

Untreated raw wastewater from direct or indirect system discharge

Treated wastewater that can be reintroduced to the environment

Sludge, a residual product from the treatment of urban and industrial wastewater



Testing and Analysis

Analysing wastewater demands specialized knowledge, expertise, and equipment. The initial phase of this analysis process involves precise sampling, a crucial step that profoundly influences the evaluation of wastewater quality based on the specific technical standards outlined in ZDHC wastewater requirements.

The laboratories have the capability to perform comprehensive wastewater and sludge analyses in accordance with the ZDHC Wastewater Guidelines. Additionally, the facilities can submit data on behalf of suppliers to the ZDHC Gateway – Wastewater Module. The results of wastewater tests play a pivotal role in establishing safety measures against the use of prohibited and high-risk chemicals.

Training and Education

Certified trainers are equipped to deliver official ZDHC training programs worldwide, conducting sessions both in-person and online and, in multiple languages.

Our Key Wastewater Testing Features



ZDHC Wastewater guidelines

We submit data to ZDHC Gateway – Wastewater Module for suppliers ensuring transparency and compliance



On-site assessments

We examine water usage, wastewater, and chemical management for associated risks



An accredited ZDHC solutions provider

Actively promote widespread adoption of sustainable chemistry



Laboratories in Europe and Asia Pacific region

Labs establish protective measures against prohibited chemicals

Benefits

- Easily collect supply chain wastewater emissions data
- Visibility into dashboards and benchmarks
- Analyse and report on your wastewater data
- Easy integration with your corporate reporting tools

