Textile Manufacturing

Wastewater from textile production processes are typically high in Chemical Oxygen Demand (COD),
total suspended solids (TSS), hardness, total dissolved solids (TDS), and can also include iron, oil, color, and organic contaminants. In 2010, Haliant Technologies commissioned a wastewater reclaim system to treat textile wastewater for both miscellaneous use and for make-up water for production.

Haliant utilized a combination of treatment technologies including ultrafiltration (UF) for removal of COD, organics, and TSS, media filtration for iron removal, and reverse osmosis (RO) for hardness and TDS reduction. The UF filtrate water is suitable for general use in the facility, while the RO product water is as pure as the make-up water from the municipal water supply.

Treated Water Results	Raw Water	Treated Water
Dissolved Iron	< 10 mg/L	< 1 mg/L
Total Suspended Solids (TSS)	65 mg/L	< 1 mg/L
Chemical Oxygen Demand (COD)	120 mg/L	< 10 mg/L
Total Dissolved Solids (TDS)	2,600 mg/L	< 250 mg/L