

KALINISAN UTILIZES RECYCLED WATER

Water, being one of the world's most abundant and valuable resources, is yet under constant threat due to climate change and increasing demand due to explosive population growth and waste. In order to address this concern, several technologies were made and one of the most promising efforts to deal with the global water crisis is industrial and municipal water recycling and reuse.

In response to the local government's initiative of prohibiting the extraction of water from deep wells, **Kalinisan Steam Laundry Inc.** in collaboration with **Matten Technologies, Inc.** developed an economical solution to continuously meet their water supply requirements without compromising the sustainability of our water resources.

Kalinisan is one of the biggest laundry companies in the Philippines that serves almost all first class hotels and hospitals in the metro. Kalinisan engaged Matten to design and construct the wastewater recycling system. Matten is one of the most competitive firm in the field of water system design and engineering and is also in the forefront of aggressive introduction of latest technology in wastewater recycling treatment system.

The wastewater recycling system of Kalinisan was designed to treat 41.7 cubic meters per hour of secondary clarifier water and produce 37.5 cubic meters per hour softened water. This system mainly involved ultrafiltration (UF) and softening processes. Make-up water is added after several cycles to meet the standard quality set by DENR for Class C water. Based on DAO # 34, Series of 1990, "Class C" water is for fishing, propagation and growth of fish and other aquatic resources.



Figure 1. Ultrafiltration Modules of Kalinisan Wastewater

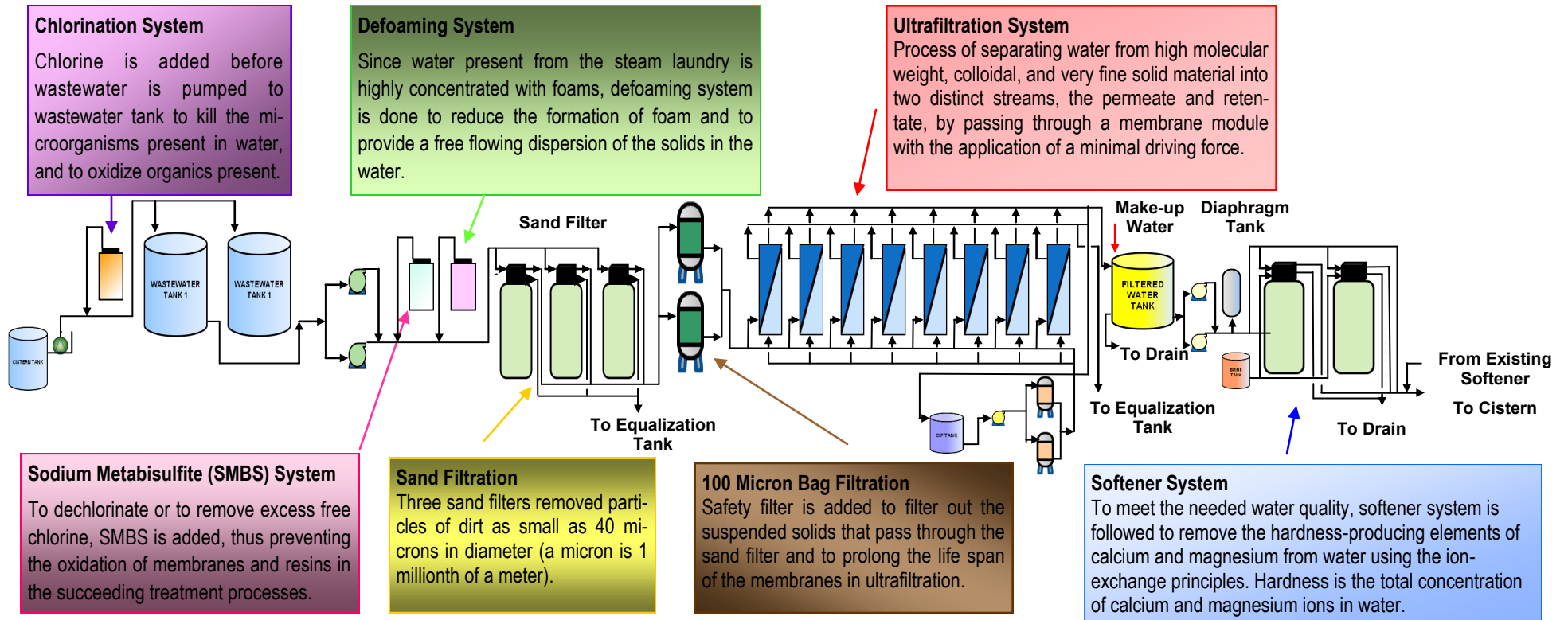


Figure 2. Wastewater Recycling System