

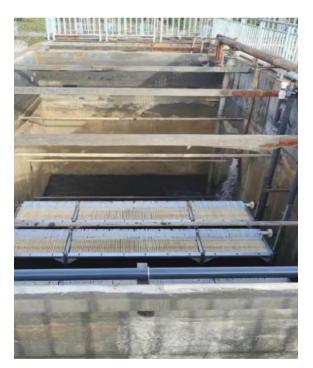
## Laundry Wastewater Treatment

## (Wuhan Railway Washing Center Project)

The project mainly deals with the washing sewage of quilt covers, bed sheets, pillow cases, headrest pieces and other personal items on all high-speed trains, bullet trains and ordinary speed trains from Wuhan Railway Bureau and Wuhan three railway stations.

The sewage characteristics of this project are: the waste water contains a lot of short fibers, a large number of laundry powder foam, COD<sub>Cr</sub> value is higher, the wastewater is turbid, and sometimes it has a very deep color. The waste water is large and has a small amount of foam, which contains less suspended matter and smaller COD<sub>Cr</sub> value. The amount of waste water drained is small, and the water quality is slightly better than that of cleaning waste water.





### 1. Outline of the Facility

Location	Wuhan City, Hubei Province				
Type of Wastewater	Laundry wastewater				
Flow	600m³/D				
Commissioned	Since Nov.,2021 (Peier MBR in 6 groups)				

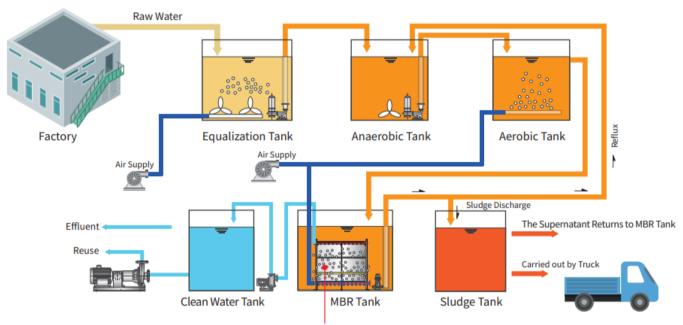


#### 2. MBR Process Flow Sheet

According to the types of pollutants in sewage and the discharge of various sewage, the sewage treatment station

adopts the following processes for sewage treatment:

# Process Flow Chart of Wastewater Treatment (Wuhan Railway Washing Center Project)



PEIER® Submerged Flat Sheet Membrane Unit (H)

#### 3. Design Parameter and Actual Data

Туре	Parameter	Influent	Design	Actual	Capacity m <sup>3</sup> /D
Laundry - Wastewater -	COD <sub>Cr</sub> (mg/L)	≤209	≤50	16	
	$BOD_5 (mg/L)$	≤93.5	≤25	5.4	
	SS (mg/L)	≤40	≤10	1.3	< 600
	Chroma (degrees)	≤9	≤20	3	≦ 600
	рН	6~9	6~9	7~8	
	Turbidity (NTU)	≤16	≤5	0.8	
	Escherichia Coli (PCs. / L)		1500		

"Design" values of effluent are regulatory limits. "Actual" values are average values.

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