

Chemical wastewater treatment (Cosmetics)

Our customer has been developing various kind of cosmetics to meet the changing needs of the age. Because its product portfolio change and production increase has led to higher load on its wastewater treatment plant, he decided to retrofit the existing plant into a Membrane Bioreactor (MBR).

Making the best use of the existing plant and KUBOTA Submerged Membrane Unit[®] has Doubled the Treatment Capacity without tank expansion.

Before the retrofit, he was struggling with the Bio-Reactor and the Coagulation Settling Tank, both of which needed close supervision. KUBOTA Submerged Membrane Unit[®] not only doubled its capacity but also Improved Effluent Quality; the following Activated Carbon Adsorption Tank is now rarely used. Furthermore, No Tank Expansion was Needed because the required Pretreatment Coagulation Settling Tank was converted from the existing settling tank.



Monitoring Room



Customer's Main Gate



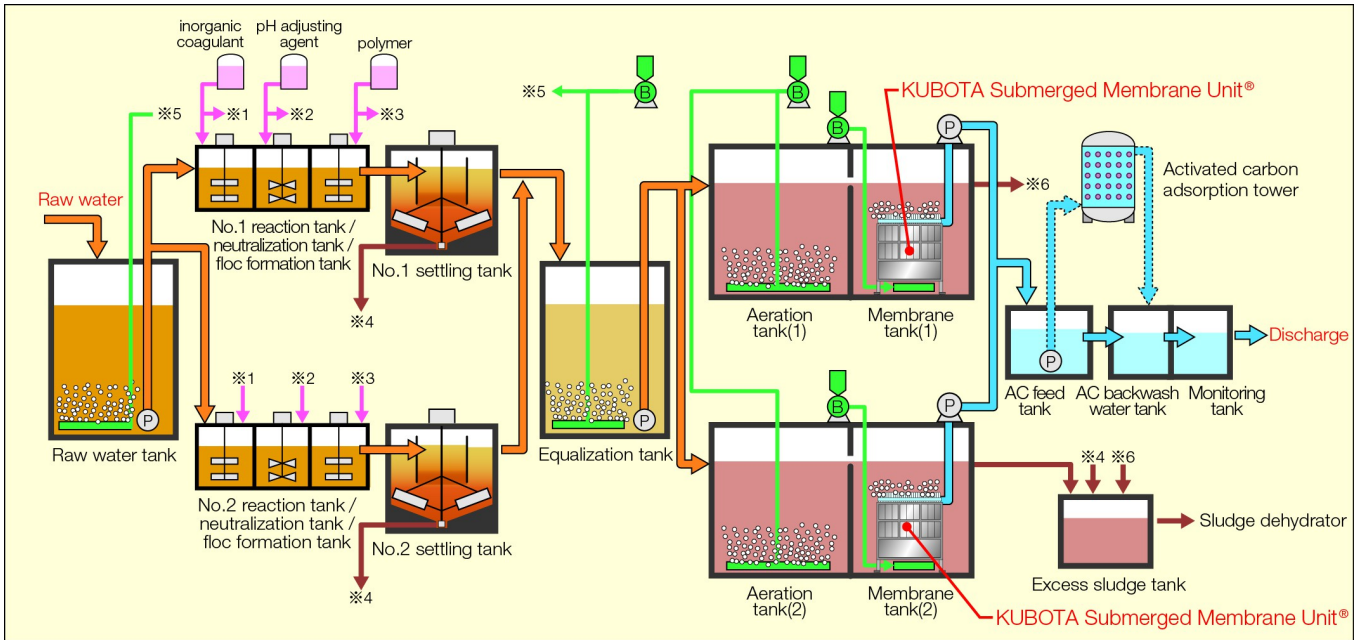
Overview of Wastewater Treatment Facility

Outline of the Facility

Location	Hyogo Prefecture, Japan
Type of wastewater	Cosmetics Factory Wastewater
Flow	120 m ³ /d (1st 60 m ³ /d + 2nd 60 m ³ /d)
Commissioned	1st :November 2000, 2nd : January 2006

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MBR Process Flow Sheet



Design Parameter and Actual Data

Parameter	Influent		Effluent	
	Design	Actual	Design	Actual
BOD5 (mg/L)	1,600	1,020	<15	2.1
CODCr (mg/L)	625	420	<15	6.9
SS (mg/L)	200	200	<10	<3
O&G (mg/L)	50	50	<5	0.5

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

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