

Engineered wetlands at Yangchen Lake East project

Lotus Island Ecological Treatment Wetland Yangchen Lake, Suzhou East Project

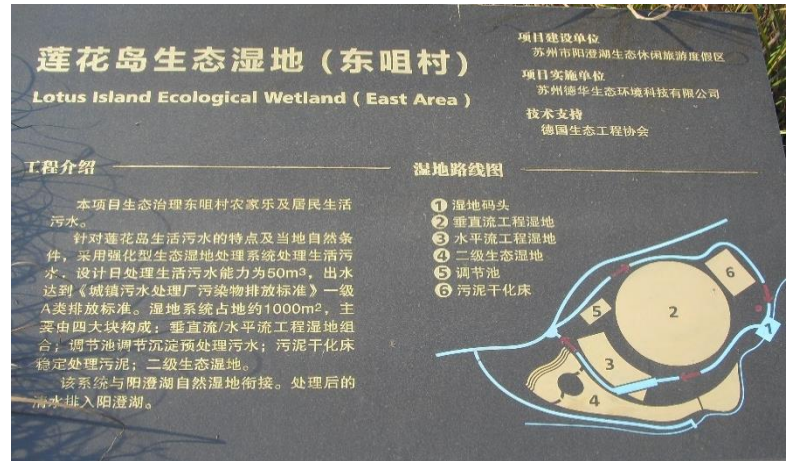
Owner:
Local government,
Jiangsu province, China

Domestic wastewater treatment from households and tourist restaurants.

Start of operation: 2009

Treatment efficiency:

Parameter (mg/l)	COD	BOD5	TN	NH-3N
Inflow	178	63	91	54
Outflow ST	43	10	38	28
Outflow VF	14	1	20	3
Outflow HF	15	1	20	1
Pond	18	2	16	0.5
Outflow (riparian wetland)	28	5	6	0.7
Efficiency (%)	84	93	94	99



Design:

The sewage treatment plant consists of a wharf (1), a vertical subsurface flow soil filter (2), a horizontal filter (3), a polishing lagoon (4), a septic tank (5) and a reed bed sludge treatment system (6).

*On the picture above you find the corresponding numbers

Capacity: 50 m³/d

Vertical subsurface flow constructed wetland: 490 m²

Horizontal subsurface flow constructed wetland: 100 m²

Polishing pond: 400 m²

Sewage sludge reed bed: 100 m²

