

Reed Bed Treatment System on Yangtze River Island

Shuangshan Island on Yangtze River (Zhangjiagang, Jiangsu Province, China)

Owner:
Jingang town government, Zhangjiagang

Treatment of domestic sewage from a new
built rural district by constructed wetlands

Planning: 2008

Construction and start of operation: 2008

Total area of the wetland: 1000 m²

Population equivalents: 500 PE

Capacity: 50 m³/d

Pre-treatment:

- sedimentation tank

Biological treatment cascade :

- 2 vertical subsurface flow constructed wetlands
- 1 horizontal subsurface flow constructed wetland
- 1 polishing lagoon



Sewage sludge treatment:

- sludge dewatering and mineralization
by reed beds

Special features:

- combination of vertical and horizontal subsurface
flow wetlands

Outlet:

- into Yangtze River

