

Landscape architectu
Location
Size
Date of Design
Date of Completion

User profile

Turenscape Shanghai, 2010 Shanghai Expo Park, China 14 hectares January 2007-October 2009 2010-2015 All communities

HouTan Park is a regenerative living landscape on Shanghai's Huangpu riverfront, consisting of constructed wetland, ecological flood control, reclaimed industrial structures and materials, and urban agriculture in which phytoremediation process is applied in order to treat polluted Huangpu River water and recover the degraded waterfront in an aesthetically pleasing way.

## **Design Process**



Through the center of the park, a linear constructed wetland, 1.7 km long and 5-30 m wide was designed to create a reinvigorated

waterfront as a living machine to treat contaminated water from the Huangpu River.

## Heritage and Vision

Inspired by the fields of Chinese agricultural landscape, terraces were created to break down the 3-5 meter (15-18 foot) elevation change from the water's edge to the road, and to slow the runoff directed to the stream in the constructed wetland



Cascades and terraces are used to oxygenate the nutrient rich water remove and retain nutrients and reduce suspended sediments



while creating pleasant water features; Different species of wetland plants were selected and designed to absorb different pollutants from the water through phytoremediation process.

Cleansed water is collected in clean water pond, and it is

The Floating Garden

Conclusion

MILL



- Frank Sleegers, Phytoremediation as Green Infrastructure and a Landscape of Experiences, June 2010, University of Massachusetts - Amherst
- An Yan, Phytoremediation: A promising Approach for revegetation of heavy metal-polluted land, 2020
- http://www.landscape.cn/landscape/9268.html
- https://landezine.com/shanghai-houtan-park-by-turenscape/
- https://www.asla.org/2010awards/006.html
- https://icandothings.wordpress.com/2012/02/22/design-precedents-for-desotopark/021712\_case\_study\_sheets\_page\_6/

educationa premier opportunity for people to learn about agriculture and farming within the city.

Buckwheat

all e

HouTan Park successfully shows the connectivity between blue and greens while achieving the goal to protect our environment through phytoremediation process.

## CHAN CING FANG A21BE0036 KOK MING HUI A21BE0373 PROJECT 1 REFERENCE STUDY 30102022

Chinese Redwoods

Field testing indicates that 2,400 cubic meters (500,000 gallons) per day of water can be treated from Lower Grade V to Grade III.







