

CASE HISTORY

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Toveko Filters

Dong-San River Park – Yi Lan County, Taiwan



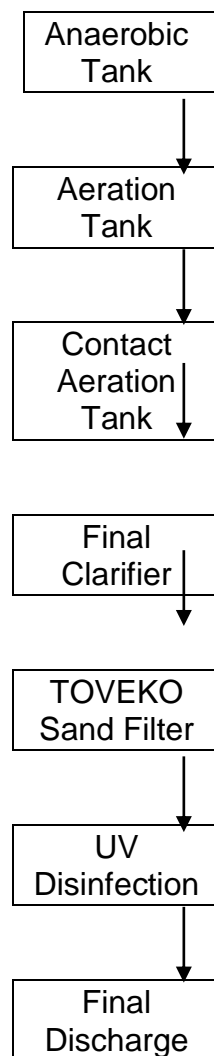
Introduction

Dong-San River Park is located in the north eastern part of Taiwan near the National North Eastern Coast Park which is famous for its beautiful Pacific Ocean coastal landscape. The Park is beside the Dong-San River and uses the river water for recreational purposes. It has become the most famous and popular recreational area in the NNECP.

To reduce the pollution resulting from visitors and the on-site restaurant, a wastewater treatment plant has been built. The treated wastewater flows back into the Dong-San river, and treated water quality is therefore of great importance.

Treatment Process

The wastewater treatment plant process is outlined below:



Discharge Quality

The following are Official analysis results from samples of the final discharge taken at the times shown:

Date	pH	SS (mg/l)	BOD (mg/l)
04/11/98	7.2	8.5	7
11/11/98	7.8	5	6
18/11/98	7.0	4	5
25/11/98	7.3	9	7
02/12/98	7.4	10	8
09/12/98	7.8	6	7
16/12/98	7.7	5	6
23/12/98	7.8	4	5
30/12/98	8.0	7	5
06/01/99	7.1	9	7
13/01/99	7.8	4	5
20/01/99	7.7	2	3
27/01/99	7.9	5	4
03/02/99	7.2	3	3
10/02/99	7.1	2	3
03/03/99	7.8	8	7
10/03/99	7.7	4	5
17/03/99	7.6	3	4

The average water quality following the TOVEKO sand filters is shown below:

Item	Before Sand Filter	After Sand Filter
SS (mg/l)	20	<10
BOD (mg/l)	20	<10
Total P (mg/l)	-	<0.2

Conclusion

The TOVEKO sand filter has been applied successfully to this plant for tertiary treatment. It has also demonstrated its stable treatment efficiency for this polishing application.

C. M. Chin
Plant Manager

Tel: +886 2 29173397
Fax: +886 2 29120738

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An aquarion Group Company

Tel: +44 1403 272772

sales@he-water.co.uk
www.he-water.co.uk