

Nan Yang Knitting Factory Co., Ltd.

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Subject: Hydrosmart Technology for water treatment at Tachin River, Thailand

Since Nan Yang Knitting Factory had changed over from bore water to Tachin River water, which is moderately polluted, in 2005, the factory had been experiencing various problems from algae and bad odours in the water. Since end of Feb 2006, when Hydrosmart has been installed, water quality has become very good for dyeing process, boiler, and drinking purpose.

The Institute of Scientific and Technological Research (TISTR) was employed to study the algae bloom in the water and reported that a more than 95% of algae disappeared. It is obvious for Nan Yang that Hydrosmart has generated significant effect in improving water quality.

Installation of Hydrosmart:

Within two weeks of applying Hydrosmart, the algae levels noticeably decreased in the storage pond to a level where the water looked clear. Turbidity in the river water was in the region of 40 to 60 NTU whereas the pond water after treatment is around NTU of 8. The factory maintains Turbidity levels of about NTU 0.4 through further filtration methods.

Hydrosmart produces a free chlorine level in our 12,000 cubic meter storage pond water of around 0.2 ppm compared to zero in the river. This chlorine is believed to be in active stage that can effectively eliminate the algae because our activated carbon does not reduce the chlorine level. We have stopped all additional chlorine dosing in the filtration process to ensure minimum level of chlorine in water reaching the dyeing process.

We are very happy with the results of applying Hydrosmart and are happy to recommend Hydrosmart as a **Clean Technology** and a very cost effective water treatment system.

We are planning forward to use Hydrosmart in developing a zero discharge wastewater treatment process in the future.

We would be very glad to be a reference site for interested parties to look on our system in order to apply Hydrosmart in other places.

Yours sincerely

Chief Engineer