

Decentralized Reuse of Wastewater for Irrigation in Arid Areas

Actual Situation

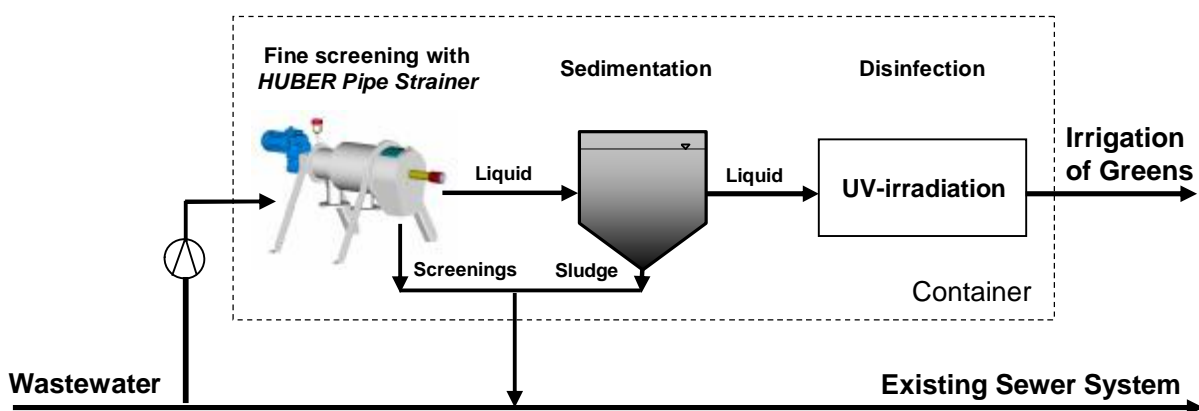
In affluent districts of many Algerian cities potable water is used for irrigation of gardens and parks. Cultivation areas in slums, however, are irrigated with raw wastewater under completely uncontrolled conditions. This leads not only to environmental pollution but also to miserable health of the population.

HUBER Solution

To reduce potable water consumption and improve the hygienic conditions in slums, a simple treatment system is tested in Algiers within a research project. The system comprises fine screening, sedimentation and UV-disinfection. The mechanically treated nutrient-rich but germ-reduced raw wastewater is used for irrigation of a test area. Wastewater is no longer considered waste material but valuable raw material for reuse.



Test area for irrigation with partially, mechanically treated wastewater



HUBER Solution – mechanical treatment plus UV-irradiation