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## **Lafu information “field of application on water”**

**Within the field of water and wastewater we offer a comprehensive spectrum of services.**

The fields of application include chemical, microbiological and physical analytics. Also biological and toxicological test systems (e.g. bio toxicity tests with luminescent bacteria) can be accomplished.

Environmental process engineering and the environmental management is a main focus of our national and international activities.

Concerning the bath water, ground water, drinking water, or wastewater treatment we can realize a project handling for treatment processes and plants due to investigations, experiments in our laboratory pilot plants and by co-operation with universities, universities of applied sciences among other things.

We offer suggested solution for the competent realization of necessary measures, also by interdisciplinary co-operation in connection with process and production-integrated environmental protection.

### **Examples of some fields of application:**

Chemical and microbiological investigations of swimming pool and whirl pool water in hotels including the hygiene and environmental management with the corresponding seminars and qualifying measures. Consultation and panel of experts for the monitoring of the hygiene parameters of public baths.

Consultation and mediation concerning the treatment process for the underground elimination of iron and manganese from groundwater e.g. for public baths.

2 years experience with the drinking water processing in the tropics (management of an agro industrial complex in Nigeria).

Investigations and evaluations of constructed wetlands (reed beds) for wastewater treatment.

Start-up of a large local wastewater treatment plant in Rostow at the Don/Russia.

Lafu research-projects to the effectiveness of antibacterial coatings and procedure in showering hoses, armatures etc. by the example of Legionella pneumophila and numerous other germs. Presentations for important German producers.

Development of procedures and certificates for different areas in the water and wastewater treatment. Execution of experiments with pilot plants locally up to the start-up of large-scale plants.

Presentations for prominent German business companies (manufacturers of proportioning pumps and disinfection plants) concerning microorganisms in water systems (including microbiological aspects of the problem of bio film among other things).

Numerous projects for biological treatment and redevelopment of soil, waste water, buildings, etc., e.g. microbiological degradation of mineral oil hydrocarbons in the river sediment in Saxony-Anhalt.

Problem solution: Inspection at special speedways. Chemical and microbiological investigations and determination of the cause for the phenomenon of sudden slippery roads. Involvement of complex systems and correlations (including the bio film problem).

Sampling, investigations, improvements and certificates of biological sewage plants on ships including environmental management systems (for Blohm & Voss/Hamburg, HDW/Kiel, NSWE/Emden etc.).

The new primary areas of work are swimming and bathing ponds/lakes.

Participation on the development of pilot plants and execution of the current control investigations at „the blue wonder in the North Sea “.

This first nature salt bath lake and so far world-wide largest swim-pond could be realized in the North Sea bath Burhave by a new developed water treatment plant in April 2007.