
Mobile Drinking Water Treatment Hecklingen



Based on newly developed treatment concept, WTE constructed a **mobile pilot plant** for future challenges in drinking water supply.

The installed technology with our unique treatment process has been successfully used for the piloting of a new drinking water plant.

Technical details

The pilot plant has a capacity of 3,000 liters per hour and includes multiple process steps with oxidation by aeration, bio-filtration with nitrification, ion exchange for reduction of the organic load, ion exchanger for removal of arsenic as well as a membrane stage.



Pilot trial results

| | Influent | Effluent |
|-------------------|-----------------|------------------|
| KMnO ₄ | 46 mg/l | 6 mg/l |
| Fe | 0,39 mg/l | 0,11 mg/l |
| Color | 50 ^o | 6,5 ^o |
| NH ₃ | 1,37 mg/l | 0,5 mg/l |
| As | 95 µg/l | 2 µg/l |

The aim of the mobile drinking water treatment is the development of a technically and economically optimum treatment concept for different water sources. A high operating stability and securing best water quality in the long term are a special focus. Furthermore, the pilot plant is characterized by very high flexibility for different processes in order to adapt to different raw water qualities.

The system concept is focused on:

- **Process selection** and design for maximum recovery and efficiency;
- **High operational** reliability through high level of automation;
- **High process flexibility** with the possibility of combining and by-passing each treatment step.

