

The MemTriq[®] Industrial

Offshore wastewater treatment

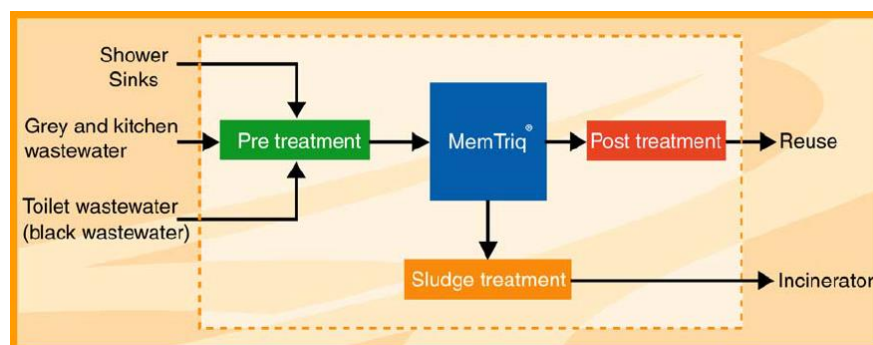
The biggest oilfield of the last 30 years (oil reserve of 8 to 50 billion barrels) can be found in the Caspian Sea. A consortium of international oil companies called OKIOC (*Offshore Kazakhstan International Operating Company*), will develop and operate the field. The Kazakh authorities have imposed very strict water discharge standards. Only a membrane bioreactor system is able to meet these standards. The treated water has such a good quality that it is reused in laundry and for flushing the toilets.

Installation Specifications

About 120 people living on the oilrig K47 generate sanitary, kitchen and laundry wastewater. Triqua has supplied a complete wastewater and sludge treatment system contained in three air-conditioned 40-ft containers. In the pretreatment, hairs, fibres, sand etc. are removed by screens and coarse filters. The remaining organic pollution is removed in the membrane bioreactor (MemTriq[®]). The excess sludge is concentrated with a decanter and incinerated on-site. The treated water is reused in the laundry and for flushing the toilets. The MemTriq[®] combines biological treatment with membrane filtration. This combination results in a very compact system, with excellent effluent quality and a stable and reliable operation. The system is fully redundant to ensure continuous operation.



Process Flow Diagram



For further information:

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