



## FILMTEC Membranes

### Troubleshooting: Membrane Element Evaluation

#### Sample Selection

When the causes of a plant performance loss are not known, or when they have to be confirmed, one or more elements of the system have to be analyzed individually. The element(s) which should be analyzed are those with a step increase in the conductivity profile.

When there is a general plant failure, a front-end element or a tail-end element should be selected, depending on where the problem is located. Typical front-end problems are fouling problems; typical tail-end problems are scaling problems. When the problem cannot be localized, an element from both ends of the system should be taken.

Sampling a second element from a neighbor position is advisable when cleaning tests are planned. Then one of the elements can be used to analyze the fouling layer and to perform lab scale cleaning tests, the results of which can then be applied to the other element.

**FILMTEC™ Membranes**  
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Notice: The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

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