



## Filtration & Membrane Technology, Inc.

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## Filtration & Membrane Technology, Inc., FIELD LIQUID SAMPLING PROCEDURE

### **Purpose:**

To acquire a representative liquid sample from a field process stream for laboratory analysis.

### **Background:**

Sample accuracy is many times diminished by the method and equipment used to acquire it. Consequently, the resulting data can be misleading, especially with samples that change due to a reaction with oxygen or changes in temperature and pressure.

### **Sampling Procedure:**

Sampling should be conducted to minimize the intrusion of oxygen to prohibit dissolved iron precipitating, forming solid particles and increasing the total suspended solids content. This can be achieved by:

- Purging the sample port for at least two minutes.
- Rinse a clean sample container at least three times with the sample fluid after purging.
- Overfill the clean sample container with the sample fluid, place plastic wrap or wax paper over the fluid surface to prevent oxygen contamination before tightly screwing on the sample jar cap.
- Submerge the sealed sample jar in an ice filled container to prohibit iron precipitation or bacterial growth or shield sample from sunlight after sealing.
- The container with sample should be shipped to reach the analytical facility within 24 hours of taking the sample.

### **Sampling Container:**

Containers should be of glass or a plastic that does not react with the fluid with a wide mouth screw cap. Five gallon plastic water bottles with screw top can be purchased at a grocery store. Wax paper or similar should be placed over the fluid surface, the lid screwed in place sealing the fluid sample from air contact. Container should be labeled with the Company name, sample location and date sample is taken. Volume should be 1 gallon(customer specific volume). Clean fluids require a larger volume to obtain accurate data. The volume required and container type should be discussed with FMT prior to shipping.

### **Shipping of Samples:**

Samples should be shipped per DOT requirements per type of fluid being shipped. A reference for shipping can be found at: <http://images.fedex.com/us/services/pdf/HazmatShippingGuide.pdf>

### **Ship to Address:**

Properly prepared samples should be shipped to:

(Customer Specific Lab)