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## SYNTHETIC ORGANIC CHEMICALS (SOC's)

### INSTRUCTIONS FOR SAMPLE COLLECTION

#### COLLECTION POINT

Samples must be collected in the proper number, at the appropriate time and location, and of the proper volume in order to satisfy the requirements of the Compliance monitoring.

- Groundwater and surface water systems should be representative of the source water following treatment (see figure on the back of this sheet).
- Samples must be collected at entry points to the distribution system (EPTDSs) representing each non-emergency water source in routine use over the 12-month period of monitoring. Generally, samples should be taken at the tap on the pipeline before the treated water is sent to the distribution system. Sometimes sampling taps (faucets) are available in the plant laboratory for the water entering the distribution system.
- Systems that draw water from more than one source and that combine (blended sample) prior to distribution must sample during periods of normal operating conditions.
- Samples must be collected at the same sampling point each cycle, unless conditions make another sampling point more representative.
- If the water system is treating for any organic compounds (i.e. packed tower aeration, granular activated carbon, oxidation, etc.) contact your regional Drinking Water Specialist to locate the proper collection point.

**Bottles must NOT be filled near gasoline cans, gasoline powered motors, paint cans, lighter fluid, paint strippers, pesticide bottles or exhaust fumes from running engines. Fumes and vapors may contaminate the samples.**

#### SAMPLE COLLECTION

1. If water taps are to be used for sampling, all aerators, strainers and hose attachments need to be removed. Open the tap and allow the system to flush for about ten minutes or until the water temperature has stabilized. Adjust the flow to about the thickness of a pencil. Collect the sample directly from a tap and not through any plastic or rubber hoses or tubing. Position the container under the tap and collect the sample from the flowing stream.
2. Collect \_\_\_\_\_ two one-liter bottle(s) at each collection point for method 525.2  
**The 1L bottles contain dry preservative (sodium sulfite) as a dechlorinating agent. After the bottle is filled cap and invert to dissolve the sodium sulfite. Next add 5 mL (complete contents of vial labeled "CAUTION! Hydrochloric Acid" to reduce the pH to less than 2. This must be done at time of sampling. Gloves are provided. Cap and return the acid vial to the plastic container and place in the cooler for return.**  
Collect \_\_\_\_\_ one 500 ml bottle(s) at each collection point for method 515.4  
Collect \_\_\_\_\_ two 40 ml bottle(s) at each collection point for method 504.1  
**Fill vials so that there is no headspace**  
Collect \_\_\_\_\_ one 40 ml bottle(s) at each collection point for method 531.2  
Collect \_\_\_\_\_ one 250ml bottle at each collection point for method 547  
Collect \_\_\_\_\_ one 250ml bottle at each collection point for method 548.1  
Collect \_\_\_\_\_ two 250ml Amber PVC at each collection point for method 549.2

**IMPORTANT:** Be careful not to touch or otherwise contaminate the inside of the lid or the lip of the bottle during sampling.

All samples need to be kept **cold**. If the samples are to be held for a day or longer prior shipping place the bottles in a refrigerator. Once samples are ready to be shipped, add a bag of ice to the cooler to keep samples stored at 4°C. Samples must be received at Edge within three days of sampling. **Samples MUST be kept cold at 4° C until they reach our laboratory. If they become warm or freeze they will be rejected.** We highly suggest NOT shipping on Thursday/Friday as samples may sit over the weekend with the shipper and become warm.

3. Insert the completed sample information form (WSI) into a plastic bag and place in cooler.

**▼ Return samples**

**Corporate Office & Main Lab:**

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**SOC SAMPLING**

If you have questions about sampling locations, remember to call your Drinking Water Specialist:

