



# Synthetic Organic Chemicals (SOC's) For Washington State Compliance Sampling Instructions

## 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 for 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. You will find the name and telephone number on the back of this sheet.

**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:

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.

**Collect two 1 liter bottle(s) at each collection point for method 525.2**

**The 1 L 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's (complete contents of vial labeled "CAUTION! Hydrochloric Acid" to reduce the pH to less than 2. 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

***Do not to touch or otherwise contaminate the inside of the lid or the lip of the bottle during sampling.***

*See back for shipping instructions and  
further SOC sampling instructions.*

## Shipping Instructions:

- Samples must be kept **COLD** during shipping or while waiting to be shipped. Keep them in a refrigerator.
- Ship samples in cooler with double bagged crushed ice or plenty of ice packs to keep them at 4° C until they reach the laboratory. If they become warm or cold enough to freeze they will be rejected.
- **Samples must be received at the lab within 3 Days of sampling.**
- Do not ship on Thursdays or Fridays to avoid samples sitting with shipper over the weekend.
- Ship samples to: Edge Analytical, 1620 S. Walnut St., Burlington, WA 98233 or drop off at any Edge Lab.
- Make sure paperwork is properly filled out and placed in a plastic bag to protect it from being damaged.

## To Keep Samples Cold: Place samples in cooler(s) with enough ice to keep cold until arrival at Edge.

- Samples must arrive at **4°C, +/- 2°**.
- Cubed ice is best for keeping samples properly cold.
- To prevent leaking, double bag the ice.

## SOC Sampling:

Example is for determining sampling locations and numbers of required samples. If you have questions about sampling locations, remember to call your Drinking Water Specialist:

## For More Information:

Washington State Department of Health

### SW Region

Tumwater: 360-236-3030

### NW Region

Kent: 253-395-6750

### Eastern Region

Spokane Valley: 509-329-2100

