

VERMONT DEPARTMENT OF HEALTH LABORATORY

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SAMPLING INSTRUCTIONS for Synthetic Organic Chemicals - KIT OL - EPA Method 525.2

Please read all instructions prior to collecting the sample. If these instructions are not followed closely, it may result in the analysis being delayed, or the sample being rejected. Caution: Ice packs must be frozen before sampling. **KEEP SAMPLE COOL. DELIVER PROMPTLY! THE SAMPLE SHOULD BE RECEIVED DURING BUSINESS HOURS, M-F, between 7:45 a.m. to 3:30 p.m. AND WITHIN 24 HOURS OF SAMPLING.** Expect results within 21 working days.

What you will need to collect the sample:

- Three (3) 1-Liter amber glass bottle containing 50 mg of sodium sulfite
- One (1) 1-Liter amber glass bottle containing water (trip blank, may not always be present)
- Three (3) vials of 1:1 Hydrochloric (HCl) acid. **Caution, handle carefully.**
- Frozen Ice packs
- A Water Sample Collection Information Form (CHEM 202)
- SOC Sampling Instructions (CHEM 439B)
- A dry paper towel (not included in kit)

****WE RECOMMEND THAT YOU WEAR SAFETY GLASSES AND PROTECTIVE GLOVES WHILE COLLECTING THE SAMPLE.**

Where to Take Sample

The sample must be taken at the point of entry to the distribution:

- a) If the system is served by surface water the sample must be taken after any application of treatment.
- b) If the system is served by ground water the sample must be taken at a location representative of each source after any application of treatment.

Sampling Instructions

- 1) **FREEZE THE ICE PACKS BEFORE SAMPLING.**
- 2) Do not touch the mouths of the bottles with your fingers. Do not rinse the bottles.
- 3) Remove any strainers. Let cold water run for 3-5 minutes at full flow before taking sample. Put on safety glasses and neoprene gloves. Reduce the flow to approximately 10 milliliters a minute (about the diameter of your little finger tip).
- 4) Fill the bottle(s) to the beginning of the bottle's shoulder without overflowing. Tighten the screw cap firmly to prevent leakage, and invert the bottle six (6) times to mix the sample with the sodium sulfite.
- 5) Carefully add contents of 1 vial of 1:1 HCl acid to each sample bottle filled. Tighten the screw cap firmly to prevent leakage, and invert the bottle six (6) times to mix the sample with the acid. Rinse out acid vials with tap water and dispose in the trash.
- 6) Wipe the bottle dry with the paper towel and then dispose of the towel.
- 7) Write in the date and time of collection, town name, your name ("sampler"), a daytime phone number, and chlorine residual result on the **WATER SAMPLE COLLECTION INFORMATION FORM, Chem 202**. If you are sending more than one sample, put the same identifying information in the "submitter remarks" section, as you put on the samples. **If required information (date and time of sampling) is not provided, the sample can not be analyzed.**
NOTE: If field data related to chlorine residual is not filled out, the sample may be rejected.
- 8) Package the sample with the **FROZEN ICE PACKS**. Include the Water Sample Collection Information Form.
- 9) Return the sample to the Laboratory within 24 hours from the time you collected the sample.

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If you have questions or suggestions regarding these instructions, please call or write to us. Thank you.