



*f: hold 2006 = ### Water = Instructions*

**INSTRUCTIONS:** All samples should be delivered to Northeast Laboratories as soon as possible after collection. If there are delays, samples should be kept refrigerated.

**BACTERIA:** A sterile 4-ounce bottle is provided (NOTE: if testing for Coliform Count ONLY, an add'l 15 ml vial is also provided for Chlorine Residual Confirmation) = FILL ALL CONTAINER(S) PROVIDED. Remove aerators, hoses, or any attachments from faucet. Sample should be collected from the cold-water tap. You may sterilize the end of the faucet by flaming with a match or lighter, or by washing with dilute bleach. Run the water for 10-15 minutes. Reduce the flow, and fill the bottle to within 1/2 inch of the top (taking care not to touch the inside of the cap or the bottle). Samples should be kept cold and delivered to the lab within 24 hours of being filled.

**PHYSICALS AND/OR CHEMISTRY:** A pint (16-ounce) bottle is provided. Follow the same instructions for bacteria samples (see above).

**VOLATILE ORGANIC CHEMICALS: === REQUIRE SPECIAL 40 ML GLASS SEPTUM VIALS**

GENERAL INFORMATION:

1. Three (3) bottles (septum vials) provided have been pre-cleaned.
2. Water should be collected from a COLD WATER TAP (note: any aerators/filters/screens at the end of the faucet should be removed prior to sampling).
3. Run water at least **10 minutes**.  
NOTE: if NEW well or if house/location has been UNOCCUPIED for a period of time it may be necessary to waste (run) water for several hours.
4. If testing location is from a Bathing Area, Pond, Stream, or Spring, etc., sample should be collected a good distance away from the shoreline or from overflow (to avoid scum and/or mud, etc.)
5. It is recommended that a trip blank accompany each sample or set of samples to monitor interferences associated with sample collection (...see "F" below).

SAMPLE COLLECTION PROCEDURES:

- A. VOC sampling must be done in septum vials provided (3 ea.)
- B. Unscrew the cap -- there is TEFLON-LINED (white or gray) silicone rubber septum in place, and the TEFLON face must be in contact with the water sample (smooth side in). Take care, because the septum can easily be dislodged (if it falls out, be certain to place it back so that the Teflon face is in contact with the water).
- C. **Fill the sample bottle to just overflowing (without passing air bubbles through the sample or trapping any air bubbles in the bottle).**
- D. Carefully screw the cap back onto the bottle so as not to entrap any air. **(Turn the bottle over and check to see that no air bubbles are present. If air is present, remove the cap and add more water to the bottle - then check for air once again.)**
- E. Samples should be kept chilled after collection. Samples must be analyzed within 14 days of collection.
- F. A septum vial, containing organic-free water, can be provided for the sampler to carry (as a "field blank") while the samples are being collected and transported. VOCs can be contaminated by even a slight exposure to numerous solvents and chemicals. The purpose of this field blank is to determine if contamination that is found in the sample is actually there or an artifact of sampling and transporting.

**PLEASE CONTACT NORTHEAST LABORATORIES (ALAN C. JOHNSON, LAB. DIRECTOR) WITH ANY ADDITIONAL QUESTIONS YOU MAY HAVE CONCERNING THE SAMPLING PROCEDURES NOTED ABOVE.**

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**INSTRUCTIONS (Page #2 of 2 Pages):** All samples should be delivered to Northeast Laboratories **as soon as possible** after collection. If there are delays, samples should be kept refrigerated.

**LEAD / COPPER for Residential Wells** (rev. 6/2006=ACJ): A one-liter (32 oz) bottle is provided. It is not necessary to remove aerators or attachments from faucet. In most circumstances, the sample should be collected from the cold water tap, as a “first draw” ( after the water in pipes has been sitting for at least 6 – 8 hours, e.g. 1<sup>st</sup> thing in the morning== before any use of water == do NOT flush lines before collecting the sample). To collect, fill the container provided to the neck of the bottle.

**Exception:**

**Daycare Provider Sites:** Sample should be collected at a tap during the active period of the day (to test for point-of-use levels). To collect, run water for approx. 10-15 seconds, then fill the container provided to the neck of the bottle.

**SYNTHETIC ORGANIC CHEMICALS** (Pesticides, Herbicides, and Semi-volatile Organics):

- 1) Follow general sample instructions (remove aerators / filters / screens, etc. and allow water to run 10 - 15 minutes before filling containers.)
- 2) **Pesticides:** Fill a one-liter bottle containing thiosulfate to the neck. Chill / refrigerate until transporting to lab.
- 3) **Herbicides:** Fill a one-liter bottle containing sodium sulfite to the neck and chill / refrigerate until transporting to lab.
- 4) **Semi volatile Organics:** Fill a one-liter bottle containing thiosulfate to the neck and chill / refrigerate until transporting to lab.
- 5) **Carbamates:** Glass containers (40ml, 125ml, 250ml) containing monochloroacetic acid buffer and thiosulfate. Fill completely. Chill until transported.
- 6) **Glyphosate:** Glass containers containing thiosulfate. Fill completely and refrigerate / chill until delivered to lab.
- 7) **Diquat:** silanized container containing ammonium chloride.

**NOTES:**

- 1) High nitrate levels require screening for pesticides, herbicides and EDB and requires three sample containers (including a VOC vial).
- 2) **Phase II (Regulated)** sampling requires pesticides, herbicides, and carbamates.
- 3) **Phase II Unregulated** sampling can be performed using the same bottles as Phase II.
- 4) **Phase V** testing requires pesticides, herbicides, semi volatiles, carbamates and glyphosate sampling.

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