

Disinfection By-Products Sampling Instructions (TTHM/HAA5)

Please read the following instructions carefully before sampling.

Samples may be rejected if all instructions are not followed.

Sample Kit Contents:

- 3 – 60 ml bottle containing Ammonium Chloride (NH_4Cl). The NH_4Cl **must not** be rinsed out during sample collection.
- 3 – 40 ml vials containing Sodium Thiosulfate (Na_2SO_4). The Na_2SO_4 **must not** be rinsed out during sample collection.
- 1 – 40 ml Trip Blank containing Sodium Thiosulfate (Na_2SO_4). **Do not open.** The Trip Blank has already been filled. It must be shipped back with your sample
- 2 – 40 mL Field Reagent Blanks containing Hydrochloric Acid (HCl) and (1) 125 mL amber glass bottle filled with de-ionized water

CAUTION: Handle with gloves, using care and wash hands when finished collecting samples.

Sample Collection:

1. Sample at the state approved location.
2. Use the same collection point for all vials, (TTHM and HAA5), unless otherwise specified by your regulatory agency.
3. Remove any potential contaminating devices such as filters, screens, aerators and vacuum breakers from sampling tap. Open the tap and allow water to run (at least two minutes) until it reaches a constant temperature.
4. Reduce flow to a thin steady stream (thickness of pencil).
5. Uncap the vial you are ready to fill.
6. Gently fill the vial until there is a positive meniscus (crescent-shaped body). Avoid agitation of the water while filling.
7. Carefully place the cap onto the vial. The shiny side of the Teflon cap liner should be face down in contact with the water sample. Tighten down the cap securely.
8. Check for trapped air by inverting the vial and looking to see if any air bubbles are present.
 - If you do see air bubbles, gently add more water, repeating steps 4 - 8
9. When you are sure the vial is properly filled, shake vigorously.
10. Use a waterproof pen to fill out the sample information on the vial label.
 - Be sure to include date and time of collection.
11. Fill the remaining vials under the same conditions, following the steps above.
12. Fill the Field Reagent Blank vials immediately before or after you fill the three vials for your own VOC sample.
13. Uncap the 40 ml glass vials labeled "Field Reagent Blank."
14. Pour the de-ionized water from the 125 mL amber glass bottle into the Field Reagent Blanks until there is a positive meniscus (crescent-shaped body).
15. Carefully place the cap back onto the Field Reagent Blanks and tighten the cap securely.
16. Check for trapped air by inverting each Field Reagent Blank and looking to see if any air bubbles are present. If you do see air bubbles, gently uncap the Field Reagent Blank and add more de-ionized water.
 - Repeat steps 13 - 16 until there are no air bubble present in the Field Reagent Blanks.
17. When you are sure the vial is properly filled, shake vigorously.
18. Complete the chain of custody (COC) and pack the samples, Trip Blank, Field Reagent Blanks, and empty 125 mL glass bottle (there may be a little water remaining – this is not a problem) in the cooler with ice. container. Samples must be received at temperature $4\pm 2^\circ\text{C}$. **If samples are not preserved properly, the data will be flagged as such.**
19. Ship or deliver your samples to the laboratory.

If you have any questions regarding the sampling procedure, please contact our Customer Service at (503) 254-1794.