



Sampling Requirements and Instructions for Volatile Organic Compounds (VOC) and Total Trihalomethanes (TTHM) for Drinking Water by Method 524.2 for Chlorinated Systems

SAMPLE KIT:

- Each Sample Kit includes one 250 mL amber glass bottle containing ascorbic acid (referred to as the "Fill Bottle"); four (4) 40 mL clear vials preserved with hydrochloric acid (HCl); and four (4) Trip Blanks. The Trip Blank accompanies the samples at all times and must be returned **unopened** to the laboratory with the samples.

SAMPLING REQUIREMENTS AND INSTRUCTIONS:

- Volatile Organic Compounds (VOC) samples should be taken at the entry point of the water system.
- Total Trihalomethanes (TTHM) samples should be taken from the ADEC Sample Site Plan.
- Remove the 250 mL amber Fill Bottle from the Sample Kit. Do not rinse out the Fill Bottle. Allow the cold water to run for a few minutes to flush the system. Collect the water in the Fill Bottle and avoid overfilling. Cap the bottle and shake gently to mix in the preservative.
- Remove the four (4) 40 mL vials from the Sample Kit. Pour the water from the Fill Bottle into one of the vials until a small mound of water forms on the top of the vial. Repeat for all four vials from the same location. Replace the lid on the vial and turn the vial upside down gently to mix. Check the vial for air bubbles. If an air bubble is present, pour additional water into the vial, replace the lid, and turn the vial upside down to check. Repeat this procedure until no air is present. Fill the other three 40 mL vials as described. **One sample = 4 vials.**
- Discard the Fill Bottle when all four 40 mL vials are filled and no air bubbles are observed.
- Fill out all container labels and complete all associated paperwork.
- Pack the vials and the Trip Blank securely in a cooler containing ice or frozen gel packs. Ensure the Trip Blank and the vials do not touch the ice or gel packs.
- **Do not allow the samples to freeze! Keep samples within 0-6°C.**
- Return the bottles, the chain of custody, money owed and all necessary information to the cooler and send it back to the laboratory. Remember to tape the cooler and send it by Goldstreak, Express Mail, or courier to one of the AAA laboratories or Service Centers. The address for each laboratory is listed.

SAMPLES MUST BE TAKEN ACCORDING TO THESE INSTRUCTIONS. INCORRECT SAMPLING MAY CAUSE AAA TO BE UNABLE TO ACCEPT A SAMPLE AND THE CLIENT TO HAVE TO RESAMPLE AT THEIR EXPENSE.

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