



Sampling Instructions for Disinfection Byproducts (TTHM/HAA)

For EPA 524.2 TTHM (purple labels), Legend has provided three 40mL vials with purple labels indicating Ascorbic Acid preservation. Slow the stream/flow to almost to a trickle to prevent tiny air bubbles from purging the sample during collection. Avoid trapping air bubbles in the sample. Fill the vials about half way. Add five (5) drops of Hydrochloric Acid to the vial (plastic dropper provided with blue label). Continue filling the vial (very slowly) until a reverse meniscus forms at the mouth of the vial, but do not overflow. If you look at the vial from the side, the water should make a dome over the top of the vial. Screw on the lid. Some water may overflow from the vial as you screw on the lid. If you turn the vial upside down, there should be no air bubbles. If there are air bubbles, do not dump out the sample and start over. Continue adding drops of water until there are no more air bubbles.

For EPA 552 HAA (silver labels), Legend has provided four 40mL amber vials with silver labels indicating Ammonium Chloride preservation. Slow the stream/flow until there is barely a flow. Fill the vials until they are at the point of getting ready to overflow (try to form a reverse meniscus), but try not to overflow the vial or the preservative will be flushed out. If you look at the vial from the side, the water should make a dome over the top of the vial. Screw on the lid- some water may overflow from the vial as you screw on the lid. If you turn the vial upside down, there should be no air bubbles. If there are air bubbles, do not dump out the sample and start over. Continue adding drops of water until there are no more air bubbles. This method does NOT require adding HCL drops at the time of sampling.

Pack samples in enough ice to keep them between 2° and 6° Celsius until they arrive at Legend. Ice cubes are always recommended over blue ice packs. Do NOT use dry ice. Be sure that the temperature blank provided (green label) is completely buried in the ice, especially during the summer months.

If you ship your samples, be extremely careful to sufficiently cushion the samples to prevent shifting and breaking during transit. In addition, also be sure that your sample cooler does not leak (line cooler with a bag and/or bag all ice), as this will delay shipping.

Both of these methods have a 14-day hold-time, but samples should always be returned to the lab as soon as possible.

Be sure to provide all compliance information on the chain of custody form such as Public Water System ID, Monitoring Site ID (taken from Stage 2 Compliance Monitoring Plan/IDSE Report), and Site ID (taken from DWAR 30). ADEQ will reject data for the Disinfection Byproducts Rule that does not include all three of those IDs.

Expect approximately 10-15 business days for the turn-around time of the data