

- The sampler will receive a sample kit from our lab.
- WHEN SAMPLING, BRING ICE IN SEALED BAGS TO CHILL SAMPLES DURING SAMPLE COLLECTION.**
- Put on nitrile gloves. If sampling from faucet, remove the aerator and screen.
- Open the tap and let the water of the sample source run at fast flow for approximately 5 minutes.
- The sample kit will include bottles depending on the type of test. Bottles, volumes, and preservatives required per test are as follows:

Test Name	Bottles	Preservative	Sample Type	Hold Time
5310 – TOC	125 mL amber glass	0.5 mL H ₂ SO ₄ (50%)	Raw or chlorinated	28 days
5320/9020- TOX	(2) 250 mL amber glass	Sulfite crystals + dropper w H ₂ SO ₄	Chlorinated	14 days
5320/9020- TOX	(2) 250 mL amber glass	1 mL H ₂ SO ₄ (50%)	Raw	14 days

- Use indelible ink (i.e. Sharpie pens) to clearly identify the sample bottles with the information listed below (if not already on the label).
 - Client Name
 - Analysis required
 - Preservative used
 - Sample ID
 - **Date and Time of collection**
 - Slow water flow to thickness of a pencil (to minimize splashing) and fill bottle.
 - Fill sample bottles, slightly under filling them. Make sure the mouth of the bottle does not come in contact with anything other than the sample water. **DO NOT RINSE OUT PRESERVATIVE.**
- For TOX with chlorinated samples only, within 4 hours after collection,** sample must be acidified with sulfuric acid to pH less than 2. After acidification, there should be no headspace in the sample bottle. Use a dropper bottle and add 20 drops of acid to each bottle. Carefully rinse out dropper bottle with water and discard. **CAUTION:** Handle the dropper bottle with care.
- Cap and invert the bottles at least 5 times to mix the sample and preservative.
 - Store at ≤6°C but above the freezing point of water until transported to the lab.

SAMPLE SHIPPING AND STORAGE

- If shipping samples on the same day of sampling, chill samples until ≤6°C by exchanging the wet ice used during sampling with **FRESH** wet ice.
- Pack chilled samples** in a cooler and add enough **FRESH** wet ice to take up 30-50% of the cooler (e.g. most of the remaining space) inside two large plastic bags as recommended in our ***“Wet Ice Packing Instructions.”***
- Complete the Chain of Custody during sample collection. Place Kit Order and completed Chain of Custody in a Ziploc style bag in the cooler on top of packing material. The following information is required on the completed Chain of Custody.
 - Collector's name
 - Sample site
 - Comments about the sample (if applicable)
 - Client Name
 - Date and time of collection
 - Sample type

4. **Ship via overnight service such as FEDEX, UPS, or DHL, etc.** Maintain an environment at $\leq 6^{\circ}\text{C}$ but above the freezing point of water during transit. It is recommended that samples arrive within 48 hours of sampling, with no more than 40 hours for transit.
5. If samples are received on the same day as collection, temperature may be $>10^{\circ}\text{C}$ with evidence of cooling.
6. Maximum **HOLDING TIME FOR SAMPLES** is **14 days** from time of collection.
7. Alternatively, cool the samples down by placing them **overnight** in a cooler with wet ice, or in a refrigerator (store chilled for at least 12 hours before packing for shipment). Maintain the cold samples until repacked in the cooler for shipment to the lab.

ADDITIONAL NOTES

- Try to collect only on a Monday, Tuesday or Wednesday and ship no later than Thursday of each week, and try to **NOT** collect samples on Friday, Saturday, or Sunday unless special arrangements have been made for the receipt of samples at the laboratory within 48-hours of collection.
- If shipping to the laboratory with **frozen gel packs** rather than wet ice, please be sure that the gel packs have **been frozen for at least 48 hours** prior to the shipment time.