

### As Speciation by LC/ICPMS Sampling Instructions

Preservation is key to the stability of Arsenic species in aqueous samples. Factors such as high Iron and Calcium concentrations, natural pH, anoxic environments, atmospheric oxygen, sun light and temperature can all shift the natural ratios of Arsenic. Please follow these instructions carefully to ensure proper preservation of the sample:

**Note:** The brown HDPE plastic bottle contains an Acetic Acid preservative solution. Do not overfill the bottle or the preservative will be lost or diluted. The 5mL transfer vial contains an EDTA preservative solution. Only add this solution to the nearly full sample bottle. Adding the EDTA directly to the Acetic Acid will compromise the preservative.

- 1) Fill the brown HDPE plastic sample bottle till it is nearly full with field filtered sample. Limit headspace but DO NOT overfill; a small amount of headspace is fine.
- 2) Add the entire contents of the 5mL transfer vial of EDTA solution to the nearly full sample bottle.
- 3) Tightly cap the bottle. Do not excessively shake or agitate the sample.
- 4) The sample should be stored and shipped with ice packs at 4°C.
- 5) Please ship the sample as soon as possible.
- 6) The observed hold time is 28 days if the sample is filtered and properly preserved.