

GLASSWARE WASHING PROCEDURES

(Rev C; Jan 8th, 2019)

A. General Glassware Washing.

All water chemistry glassware except that to be used for trace metals is to be washed with 10% HCL.

Wash trace metal glassware with 10% HNO₃.

** Store vessels filled with distilled water until time to wash**

Wear appropriate PPE; lab coat, apron, long cuff gloves and face shield or goggles.

- a) REMOVE ALL REP. NUMBERS WITH ACETONE PRIOR TO WASHING. (this does not include labels on DOC glassware).
- b) Rinse well with distilled water to remove bulk of contents--check for any residue, scrub if necessary with test tube scrubber. This should be done immediately after use.
- c) To wash, submerge in acid bath for at least one hour, preferably overnight. Make sure all surfaces are in contact with the acid and that there are no air pockets.
- d) Rinse in bin filled with DISTILLED WATER
- e) Rinse under stream of distilled water >3X.
- e) Drip dry inverted on "clean acid washed glassware" cart--small objects should be dried in plastic mesh basket.
- f) Return glassware to appropriate cabinet or drawer.

B. Ashing Glassware for Organic Carbon Analysis.

Glassware should first be acid washed.

- a) Place glassware in stainless steel rack or beaker with opening up.
- b) Cover open tops of tubes or other glassware with Al foil.
- c) Ash at 550 °C for 4 hours in muffle furnace.
- d) Cool to room temp and return to appropriate storage area until use.