**Taking water samples for isotopes**

**18O**

1. Rinse pre-labeled\* bottle 3x with water sample
2. Fill completely (no head space)
3. Cap tightly
4. Ensure there is NO headspace
5. Wrap cap with Parafilm
6. Label sample\*
7. DO NOT POISON

**13C**

1. Put on new gloves
2. Rinse pre-labeled bottle 3x with water sample
3. Fill (leave head space)
4. Add 10 L (one dropper) per 10 mL SW of HgCl2 to poison sample
5. Invert bottle several times to disperse HgCl2 thoroughly
6. **LABEL BOTTLES “POISONED with HgCl2” (add Mr. Yuck sticker)**
7. Put gloves, HgCl2-contaminated pipette tips and any other solid waste into Ziploc bag labeled HgCl2 waste
8. If samples are not in opaque bottles, place in an opaque bag
9. **WASH HANDS**

LOG EVERY SAMPLE IN THE

SEAWATER SAMPLING LOG!!!

Take pre and post-experiment water samples

**Taking water samples for metals**

**Trace element samples**

1. Put on new gloves
2. Rinse syringe 3x with sample water
3. Attach 0.22-um filter
4. Push water (discard the first few mls) through filter into pre-labeled\* acid-cleaned 15 mL nalgene bottle or falcon tube
5. Acidify with 20 L of concentrated HCl using a dedicated metal-free pipette
6. Invert several times to disperse HCl
7. Cap tightly and wrap cap with Parafilm
8. Add label (include date, sample name, and note that the sample contains HCl)
9. Keep metal samples in a clean Ziploc bag or other clean storage container.

\*bottle label examples:

 OC2109A

 Station: NH25

Date: 2021-09-06

 Sample type: 13C

 Depth: 50m

 POISONED with HgCl2

 Catalina 2022

Date: 2021-09-06

 Sample type: 13C

 Sample: Exp2-15

 Notes: Temp experiment, specimen 15

 NCC Fall Cruise 2022

Date: 2021-10-16

 Sample type: TE

 Sample: Pre-Exp

 Notes: contained 5x [Ba], 3x 87Sr