

# Collecting Water Samples for Phytoplankton Analyses

## Components

- Lugol's solution
- Glutaraldehyde solution (keep refrigerated, wear gloves when handling)
- 125 mL amber bottle s
- 22 mL scintillation vials
- Disposable pipets

## Collecting Water Samples Instructions

1. Mix water sample thoroughly, without excessive shaking.
2. Fill 125 mL amber bottle and 22 mL scintillation vial with mixed water sample, up to the shoulders of each bottle. Label bottles with YYYY.MM.DD - Business Code. Keep log sheet with description of each sample.
3. Add two full disposable pipet (2 mL) of Lugol's solution into the filled amber bottle. Then administer  $\frac{1}{2}$  disposable pipet ( $\frac{1}{2}$  mL) of glutaraldehyde solution into the filled scintillation vial.



4. Put samples into a zip-lock bag and store in cardboard box in a refrigerator not used for human food.
5. Samples can be shipped or transported to the University of Florida (UF), Algal Physiology and Ecology Lab for processing and analyses.

## Packing and Shipping Instructions

Prior to sampling, contact Ed Philips or Susan Badylak to ensure their lab is able to receive shipment and obtain specific instructions and submission forms. Pack samples in a Styrofoam box with one gel pack and ship via priority overnight courier during the first of the week. Do not ship samples during holiday weeks. Shipping and analyses will be at the facility's expense.

### Ship to:

Dr. Edward Philips  
University of Florida  
Fisheries and Aquatic Sciences  
7922 NW 71st Street  
Gainesville, FL 32653

### Contact:

Edward Philips: (352) 273,3603, [philips@ufl.edu](mailto:philips@ufl.edu)  
Susan Badylak: (352) 273-3607, [oceans@ufl.edu](mailto:oceans@ufl.edu)