



The University of Georgia
 College of Agricultural and Environmental Sciences
 Cooperative Extension Service

SOIL, PLANT, AND WATER LABORATORY
 2400 College Station Road
 Athens, GA 30602

Lab Use Only
LAB # _____
Received by: _____
Date and Time: _____

POND WATER QUALITY AND ALGAE ANALYSIS SUBMISSION FORM

See instructions on collecting and shipping samples on page 2. Submit one form per box.

SUBMITTING COUNTY	Sample location <i>(if different from client's address)</i>
COUNTY: _____ Client Name: _____ Client Address: _____ City, State, Zip: _____ Phone: _____ E-mail: _____ <small>*Note: Test results are sent to submitting county office. Please note that test results may be available to other parties through the Georgia Open Records Act.</small>	County: _____ Name: _____ Sample Address: _____ City, State, Zip: _____
	Other Information
	Date Received: _____ Sample #: _____
SAMPLES NEEDED (3 BOTTLES per kit)	
One 125 mL opaque Nalgene container for Water Quality Test One 60 mL opaque Nalgene bottle (without Lugol) for Algal Identification One 60 mL Nalgene bottle with Lugol and wrapped in aluminum foil for Toxin Identification	
NOTES: <ul style="list-style-type: none"> • Testing Fee is \$110/kit. • Samples are accepted at the lab Monday through Thursday (so do not ship samples on Thursday). • Payment is due upon receipt of sample unless prior arrangements are made. • Place all 3 bottles in the same box, enclose check payment and submission form, seal sample box, affix UPS shipping label and call UPS at 1-800-742-5877 to determine your local pick-up/drop off place and time for "Next Day Air" packages. Or hand deliver to the SPW Laboratory, 2400 College Station Rd, Athens. 	
FOR LAB USE ONLY	
Payment Received: _____ Date Returned: _____	
<p>pH _____ NO₂-N _____ NH₄-N _____ Alkalinity _____</p> <p>E.C. _____ NO₃-N _____ PO₄ _____</p>	
Special Notes:	

Collecting Water Samples from Ponds for Water Quality and Algae Analysis

Note: Lab accepts samples Monday to Thursday ONLY.

(Do not ship the samples on Thursday)

Algae are the primary source of food in an aquatic ecosystem. Algae readily take up nutrients, while providing food for fish and other organisms. A water body rich in nutrients provides an ideal environment for algae, such as cyanobacteria, also known as bluegreen algae, to flourish, including those that are toxic to fish and other animals. The presence of these monotypic cyanobacteria blooms may decrease water quality and impede water treatment. In order to determine the extent of algal blooms and possible treatment procedures, the Warnell School of Forestry and Natural Resources of UGA is now offering testing services that requires microscopy work. They will provide a taxonomic list (to *Genus*, and when possible, *species*) and measure algal abundance (cells/mL) for your water samples.

The properties of water may vary with depth and area within the pond. The following may be useful in obtaining a representative sample to describe the alga and water chemistry of the pond:

Water Sample Collection

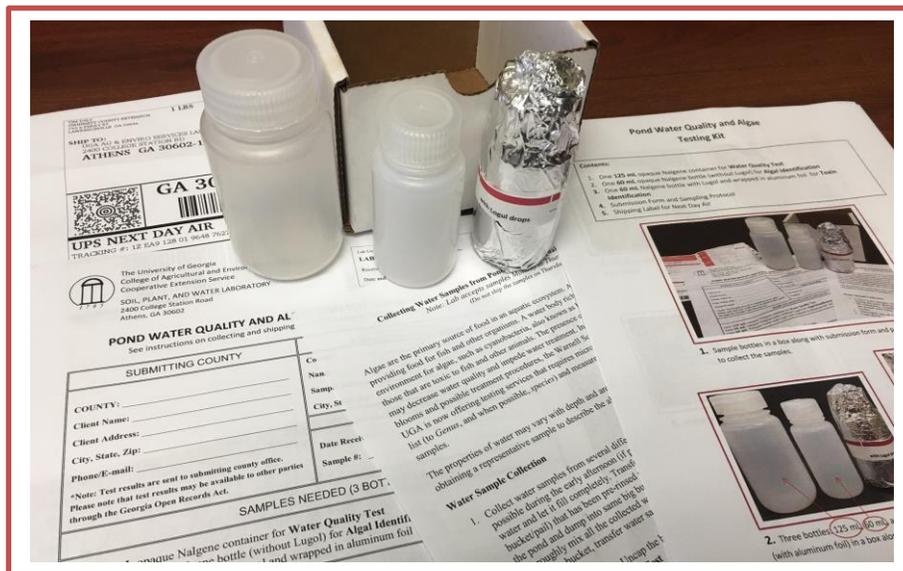
1. Collect water samples from several different areas around the pond as far from the bank as possible during the early afternoon (if possible). Do this by holding a container collector under water and let it fill completely. Transfer the collected water to a large, clean container (ex. bucket/pail) that has been pre-rinsed with water in the pond. Continue collecting water around the pond and dump into same big bucket.
2. Thoroughly mix all the collected water in the bucket.
3. From the bucket, transfer water samples into 3 plastic bottles provided in the kit:
 - **125 mL** bottle: Uncap the bottle, fill the container up to the neck, then cap tightly. This is for **Water Quality Test**
 - **60 mL** bottle without Lugol: Uncap the bottle, fill the container up to the neck, then cap tightly. This is for **Algal Identification**
 - **60 mL** bottle with **Lugol** and wrapped in aluminum foil: Unwrap container from aluminum foil and inspect for the presence Lugol solution (dark liquid) in it. Lugol is a fixative agent for algae and so **DO NOT** pour it out. Uncap the bottle and fill the container, then cap tightly. Wrap the container again with the same aluminum foil. This is for **Toxin Identification**.
4. Place all 3 bottles in the same box.
5. Enclose check payment and submission form.
6. Seal sample box, affix UPS shipping label and call UPS at 1-800-742-5877 to determine your local pick-up/drop off place and time for “Next Day Air” packages.
7. Or hand deliver to the SPW Laboratory, 2400 College Station Rd, Athens.

NOTE: In many cases, pictures of the ponds help us diagnose the quality of the pond. You may send us pictures for complete assessment of the pond.

Pond Water Quality and Algae Testing Kit

Contents:

1. One **125 mL** opaque Nalgene container for **Water Quality Test**
2. One **60 mL** opaque Nalgene bottle (without Lugol) for **Algal Identification**
3. One **60 mL** Nalgene bottle with Lugol and wrapped in aluminum foil for **Toxin Identification**
4. Submission Form and Sampling Protocol
5. Shipping Label for Next Day Air



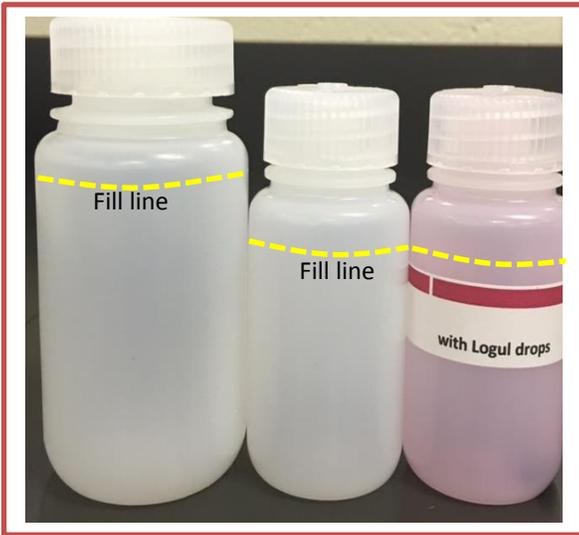
1. Sample bottles in a box along with submission form and procedures on how to collect the samples.



2. Three bottles: **125 mL**, **60 mL**, and **60 mL + lugol** (with aluminum foil) in a box along with submission



3. Remove aluminum foil prior to filling bottle with water sample.



4. Fill containers near the neck (fill line) of each bottle.



5. Re-wrap lugol container with aluminum foil and place all three bottles in the box, along with submission form and check payment of \$110 payable to Soil Lab.



6. Shipping label for next day air



7. Seal box, attach shipping label and send to:

Soil, Plant, and Water Laboratory
2400 College Station Road
Athens, GA 30602

Call UPS at 1-800-742-5877 to determine your local pick-up/drop off place and time for "Next Day Air" packages.