

GEORGIA ADOPT-A-STREAM CHEMICAL MONITORING QA/QC TEST



Name:

Trainer's Name:

Workshop Location:

Date:

A score of 80% is required for QA/QC certification (stream monitors – 76 out of 95 points, coastal monitors – 86 out of 108 points, lake monitors – 83 out of 104 points). Answer all questions related to the certification you are acquiring (i.e. stream, coastal, or lake).

1. What are the goals of Georgia Adopt-A-Stream? (5 points)

2. Where and when is it ideal to sample? (5 points)

3. True/False. Volunteers should submit their data as soon as possible to the online AAS database. (5 points)
4. How often do you conduct chemical monitoring? (5 points)

5. What is a watershed? What watershed are you currently in? (5 points)

6. True/False. Basic kit maintenance includes storing reagents in a cool, dark place, checking reagents' dates, and replacing them as they expire and/or are contaminated. (5 points)

7. What are the state standards, duplicate precision and units for the following parameters?

A. Please fill out the chart below. (2 points/blank)

Parameter	State Standards	Duplicate Precision	Units
Dissolved Oxygen			
pH			
Salinity			
Clarity (Secchi Disk)			

← Coastal Volunteers
← Coastal & Lake Volunteers

B. What happens if the samples are not within the correct precision? (5 points)

8. pH

A. How low might you find pH in some south Georgia streams? (5 points)

B. True/False. The pH range on the coast falls within state standards. As salinity goes up, pH increases and becomes more basic. (Coastal Volunteers; 5 points)

9. Temperature

- A. Where is the best place to measure air and water temperature and which should be measured first? (5 points)

- B. True/False. Temperature affects feeding, respiration, and metabolism of aquatic organisms. (5 points)

10. Dissolved Oxygen

- A. Name two ways oxygen is introduced into water: (10 points)
(Temperature is not a correct answer.)
 - 1.
 - 2.

- B. Would you expect to obtain higher oxygen levels in the summer or winter? Explain why or why not. (5 points)

- C. What effect would excess organic matter have on dissolved oxygen levels in the stream? (5 points)

11. Conductivity (Stream and Lake Volunteers)

- A. What does conductivity measure? (5 points)

- B. List two sources that can cause changes from baseline conductivity levels: (5 points)
 - 1.
 - 2.

- C. True/False. The conductivity meter should be calibrated within 24 hours prior to each monitoring event. (5 points)

12. Salinity (Coastal Volunteers)

- A. Name one factor that could cause salinity levels to fluctuate. (5 points)

- B. True/False. The refractometer should be calibrated/zeroed within 24 hours prior to each monitoring event. (5 points)

13. Water Clarity (Lake and Coastal Volunteers): How does water clarity affect the growth of aquatic plants? (5 points)