

Stream Cleaner Environmental Forum Worksheet #2. Essential Background

<http://www.cacaponinstitute.org/high.htm>

1. How big is the Bay's watershed? *Circle the correct answer:*
 - a. More than 100,000 square miles (>64 million acres)
 - b. About 64,000 square miles (44 million acres)
 - c. About 44,000 square miles (28 million acres)
 - d. About 28,000 square miles (18 million acres)
 - e. Less than 20,000 square miles (>13 million acres)
2. The Bay's watershed is limited to the shores of the Bay itself.
Circle the correct answer: True False
3. The Bay's watershed is limited to the Bay itself and the waters of the rivers and streams.
Circle the correct answer: True False
4. Which of the following is NOT a key category in the SCE Forum? *Circle the correct answer:*
 - a. Water quality science
 - b. The Chesapeake Bay Model
 - c. Stakeholders
 - d. The Tributary Strategy process
 - e. Best Management Practices
 - f. Tides and currents

Questions 5-9 relate to the essay by Native Guide AI Todd.

5. The Chesapeake Bay is 200 miles long, from 4 to 30 miles wide, and the average depth is...
(Circle the correct answer.)
 - a. About 200 feet
 - b. About 50 feet
 - c. About 100 feet
 - d. About 22 feet
6. What is a Tributary Strategy? *Circle the correct answer:*
 - a. A tribunal of judges who rule on legal issue related to pollution.
 - b. A single set of strategies that cover all the Bay states.
 - c. River-specific cleanup strategies for "on-the-ground" actions.
 - d. Strategies for attributing responsibility for the causes of pollution.
7. Why is it important to protect forested parts of the watershed that currently contribute to good water quality? *Circle the correct answer:*
 - a. The forests have the most recreational value
 - b. The forests take the longest time to develop
 - c. It is the most cost effective strategy
8. The restoration of the Bay is always in the "front seat" of social issues of our day. *Circle the correct answer:* True False
9. What is the best land use for preventing nutrient pollution?
Circle the correct answer:
 - a. Farm
 - b. Residential
 - c. Forest
 - d. Industrial

Questions 10-17 are based on the Water Quality Primer discussion of pollution types. Please check which pollution category (point source or non-point) each of the following belongs in.

	Point	non-point
10. Factories		
11. Sewage treatment plant		
12. Regulated pollution sources		
13. Parking lots		
14. Fields		
15. Barnyards		
16. Less likely to occur on dry days		

17. The Bay's problems come from both point source and non point source pollution. How do solutions for point source and non point source differ? (*Circle the correct answer.*)

- They don't, both can be addressed with a common set of approaches
- It is relatively easy to regulate non point source pollution, while point source pollution requires voluntary compliance
- It is relatively easy to regulate point source pollution, while non-point source pollution requires voluntary compliance
- Non point source pollution happens in small doses and is, therefore, less difficult to solve

18. From the Water Quality Primer, what three pieces of information do you need to calculate stream flow? (*Circle the correct answer.*)

- Wind speed, water speed, and water quality.
- Wind speed, water depth, and water quality.
- Stream width and depth, and water speed.
- Stream depth, water speed, and water quality.

Questions 19-23 are based on the Water Quality Primer discussion of concentration and load. Which of the following statements are true? Check true or false for each.

Statement	True	False
19. Concentration of pollution is always higher during floods		
20. If concentrations are the same, a bigger river would have more load.		
21. Bigger rivers always have higher concentrations of pollution.		
22. You need to know concentration to calculate the load.		
23. Concentration can vary but load is always the same.		

24. The SCE Forum dialogue is focused on finding solutions for (*Circle the correct answer.*)

- Point Source Pollution
- Non Point Source pollution
- Both of the above
- None of the above.

25. If you learned one thing from playing the Stream Cleaner game, it was that ...

- All you need is one BMP on a piece of land to fix its non point pollution problem.
- It is best to start restoration with the most expensive BMPs.
- There is no "magic bullet" solution to the non point pollution problem.
- All of the above.