

Urban Streams & Watersheds Final Assessment

Below are four scenarios about topics we have studied during this unit. **Please respond to two of the four scenarios using the vocabulary words correctly.** You may use paragraphs, detailed point form, and diagrams. Please underline the vocabulary words in your responses, list any references you use in addition to the class material, and submit your assessment.

Vocabulary

Algal Bloom	Impervious Surfaces	Spawning
Blue-Green Algae	Invertebrate	Storm Sewer
Dissolved Oxygen	Keystone Species	Surface Water
Drainage Basin	Nitrates	Sustainability
Ecological Restoration	Nonpoint Source Pollution	Total Hardness
Ecosystem	pH	Tree Canopy
Environmental Impacts	Phosphates	Turbidity
Erosion	Point Source Pollution	Water Quality Parameters
Eutrophication	Pool	Water Usage
Flood	Riffle	Watersheds
Ground Water	Riparian Zone	
Habitat	Runoff	

Respond to two of these four scenarios:

	<p>Scenario 1:</p> <p>The Grade 5 class is learning about the salmon life cycle as they raise salmon eggs in their aquarium. You are tasked with teaching the class a lesson on the importance of protecting our watersheds and this species. Why should we protect our watersheds? What are some threats to a watershed? What should this class consider about a stream habitat before releasing their salmon fry into the environment?</p>
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Scenario 2:

You have been hired by the municipality parks department to conduct a field report on environmental status at the pond or stream near your school. What would you include in your report? What evidence of positive and negative human impact on this ecosystem do you notice? (Be sure to consider all the surroundings of the pathways/trails that border the pond.)



Scenario 3:

The urban stream in your neighbourhood is experiencing flooding and the banks of the stream are starting to erode causing damage to this ecosystem. As a result, the water quality is poor and there are fewer aquatic organisms. You decide to start a volunteer group to help restore the stream. What are you going to do? (Be sure to consider what is causing the flooding and poor water quality, and what contributes to a healthy stream.)



Scenario 4:

You love to go swimming in your local lake during the summer months, but you've noticed on the beach that there are Public Health Advisory signs for Blue-Green Algae and to stay out of the water. Explain the cause-and-effect relationship of water pollution, nutrient levels, cyanobacteria blooms, and unhealthy lakes. (You can use diagrams to help explain your answer.)