

## Your Current Knowledge of *E. coli*

The following questions examine your knowledge of *E. coli*, its sources, effects, and how to monitor for it. This information will be very valuable in helping us evaluate the effectiveness of the training.

1. *E. coli* is monitored because: (check all that apply)

- It is an indicator of fecal matter in water
- It is an indicator organism used to detect possible presence of other microorganisms (including bacteria, viruses, protozoa and worms)
- It makes fish unsafe for human consumption

2. When people are exposed to water with levels of *E. coli* above water quality standards there is a risk of illness. Which of the following effects can they experience? (check all that apply)

- Fever
- Diarrhea and abdominal cramps
- Chest pain
- Hepatitis

3. Sources of *E. coli* include: (check all that apply)

- Human waste
- Wildlife waste
- Candy wrappers
- Urban and agricultural stormwater runoff
- Heavy metals
- Pet waste
- Livestock waste
- Fish

4. The variability of *E. coli* test results will increase because of: (check all that apply)

- Reusing sample bottles without cleaning them
- Exposing the collected sample to high temperatures before incubation begins
- Shaking the sample
- Using a non-sterile pipette to transfer the water sample

5. What is the typical incubation time for an *E. coli* test?

- 30 minutes
- 2-4 hours
- 24-48 hours
- 6-7 days

6. The water quality standard for bacteria is the same for drinking and swimming.  
 True  
 False
7. Which of the following is a potential source of *E. coli* in surface water? (check all that apply)  
 Fish and insects in the water  
 Car exhaust and automotive fluids  
 Wastewater  
 Atmospheric deposition  
 Litter and trash
8. Bacteria in water are reported as: (check all that apply)  
 Milligrams per liter (mg/L)  
 Colony Forming Units per 100 milliliters (CFU's/100ml)  
 Centimeters  
 Cubic feet per second (cfs)
9. After a heavy rainfall, the number of bacteria in surface water will most often:  
 Increase  
 Decrease  
 Stay the same
10. There are hundreds of strains of *E. coli* bacteria, some of which can cause illness.  
 True  
 False

11. For each of the following statements, please check the box in the appropriate column.

	<b>Strongly agree</b>	<b>Agree</b>	<b>Disagree</b>	<b>Strongly disagree</b>
A. I understand what I am supposed to do when I collect a water sample to monitor <i>E. coli</i> in a stream.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. I understand the process for maintaining the chain of custody.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. I now have the training I need to monitor <i>E. coli</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>