

**14.1 An Overview of Water Pollution**

1. What's the big deal? Don't most folks have good water? Explain and support your answer with at least 2 facts.

**14.2 Selected Water Pollutants**

2. List the major types of water pollutants. The first letter of each type of pollutant is listed, a free gift just for YOU!

O \_\_\_\_\_

P \_\_\_\_\_

N \_\_\_\_\_

O \_\_\_\_\_

T \_\_\_\_\_

S \_\_\_\_\_

H \_\_\_\_\_

R \_\_\_\_\_

S \_\_\_\_\_

T \_\_\_\_\_

3. What's the prob w/ dead stuff in water? It's natural! Nature does the same thing! Quit whining, granola boy! Explain.

4. Summarize one of the *E. coli* outbreaks and list the effects on humans and the results for the community.

5. If nitrogen and phosphorous help plants grow, aren't they good to put into rivers, lakes and oceans? Explain.

6. List and describe one oil spill either covered in the book or from the web.

7. Thankfully the Deepwater Horizon platform was one of the few in the Gulf of Mexico, right? Explain.

8. What do you think about our response to the Deepwater Horizon spill?

9. Will the Gulf recover? Explain

10. Nature breaks down compounds. Why are we worried about these synthetic organic chemicals? Give an example.

11. Explain what happened with MTBE. (Yeah, I know that this class makes you 🙄. You can thank me later.) :)

12. If mercury (Hg) is natural, why are we concerned? Include some figures.

### 14.3 Surface-Water Pollution and Treatment

13. Give an example pollution from a point source vs. a non-point source.

### 14.4 Groundwater Pollution and Treatment - One thought question.

14. If each pollutant in our drinking water is below the MCLG (maximum contaminant level goal), aren't we safe? Explain. (This is a thought question. You won't read the answer.)

15. List items in table 14-3 that concern you most at your home and those that don't.

OF CONCERN AT MY HOME

NOT SO CONCERNING TO ME & IT IS ALL ABOUT ME

16. According to Figure 14.18, the \_\_\_\_\_ part of the US has wadable streams w/ the lowest ecosystem health.

17. Hypothesize why this might be.

18. According to Figure 14.18, the \_\_\_\_\_ part of the US has wadable streams w/ the highest ecosystem health.

19. Hypothesize why this might be.

*We've already talked about salt water intrusion. No questions.*

20. Table 14.4 lists ways to treat polluted groundwater. Which is best? Or do you have a BETTER way? Explain.

### 14.5 Water Quality Standards

21. What the problem with nitrates in drinking water?

22. Draw and label and explain how a septic tank works. Really. Draw it. Make Paul J. 🍌 happy!

22 ½. Label the sewage treatment facility below and explain what each part does.

