

Name: _____ Date: _____

Wastewater Treatment Plant

While watching the Tour of the Wastewater Treatment plant, answer the following questions

<http://www.youtube.com/watch?v=O2HuORzuFd4>

<http://www.youtube.com/watch?v= JqeNc61Hd4&feature=related>

1. What is the first step? What happens during this step?
2. Where are the solids pumped to? What breaks them down? What's special about them?
3. How long does it take to digest the solids?
4. How long is the water detained in the primary?
5. Where is water collected from to move to secondary?
6. What lives in the secondary tanks?
7. What do they "feed" these things living in the tanks?
8. How are the nitrates removed?
9. How long does it take in the first part of secondary?
10. What is the second part of secondary? What happens during this stage? How long does it take?
11. What is the next stage?
12. What gets collected at the bottom of the filters? What happens when these filters get full?
13. What's after tertiary? What happens during this stage?
14. How long does the whole process take?
15. What happens to the solids?

Drinking Water Treatment:

Read the publication from the EPA about the process of how water is treated to drinking quality levels and answer the following questions:

1. What is the goal of public water systems?
2. What percent of communities drink water supplied from groundwater?
3. Summarize the following types of treatment:
 - a. Flocculation/Sedimentation
 - b. Filtration
 - c. Ion Exchange
 - d. Adsorption
 - e. Disinfection
4. How is water quality monitored?
5. How is water distributed to customers?