Notes- Water Pollution Pg \_\_\_\_\_\_

* **\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_** is the addition of any substance that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_effects the water and living things in the water. The amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water depends on the quality of the water.
* Examples of water pollution include: treated wastewater, runoff, toxic chemicals, municipal sewage, motor oil from cars, fertilizers, detergents, pesticides, . . . .

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| **Sources of Water Pollution** | | |
| **Kinds of pollutants** | **Examples** | **Sources** |
| Disease causing organisms | E. coli, Giardia, bacteria | \_\_\_\_\_\_\_\_\_\_ and animal waste, agricultural runoff |
| Pesticides and Fertilizers | DDT, nitrates, phosphates | Agricultural and residential runoff |
| Industrial chemicals | PCB’s, Carbon tetrachloride | Industrial effluent |
| Heavy Metals | Lead, Mercury, Copper | Industrial effluent |
| Petroleum Products | Oil, Gasoline | Road runoff |

* Sediment pollution is the number one cause of water pollution in NC rivers. What would cause sediment runoff?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_describes any waste material discharged into the environment.
* When waste is deposited in water, solids particles settle to bottom and the concentration of the chemical is diluted by the water. Water naturally \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ itself through the water cycle & filtration through wetland environments.
* When too much \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_waste that is high in nitrates & phosphates enter the water, algae can begin to grow uncontrollably due to the “nutrient” matter.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs when the lake or pond or stream is overtaken by algae. It has a “green scum” covering the surface and chokes out oxygen from entering the water for fish and thus fish kills can occur
* **Point Source vs. Nonpoint Sources of Pollution**

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| * Point Sourcesof Pollution | * Nonpoint Sources of Pollution |
| * Pollution from a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_** such as pipes dumping toxic waste into a river. * Controlled by legislation such as the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_** , passed by Congress in 1970. | * Pollution that does \_\_\_\_\_\_ come from a single source such as runoff. * The largest amount of water pollution. * No one claims responsibility! |