

The background of the slide is a close-up photograph of water with numerous bubbles of various sizes. The water has a greenish tint, and the bubbles are translucent, showing some internal reflections and refractions. The overall effect is a textured, organic pattern.

WATER POLLUTION AND EUTROPHICATION



WASTEWATER

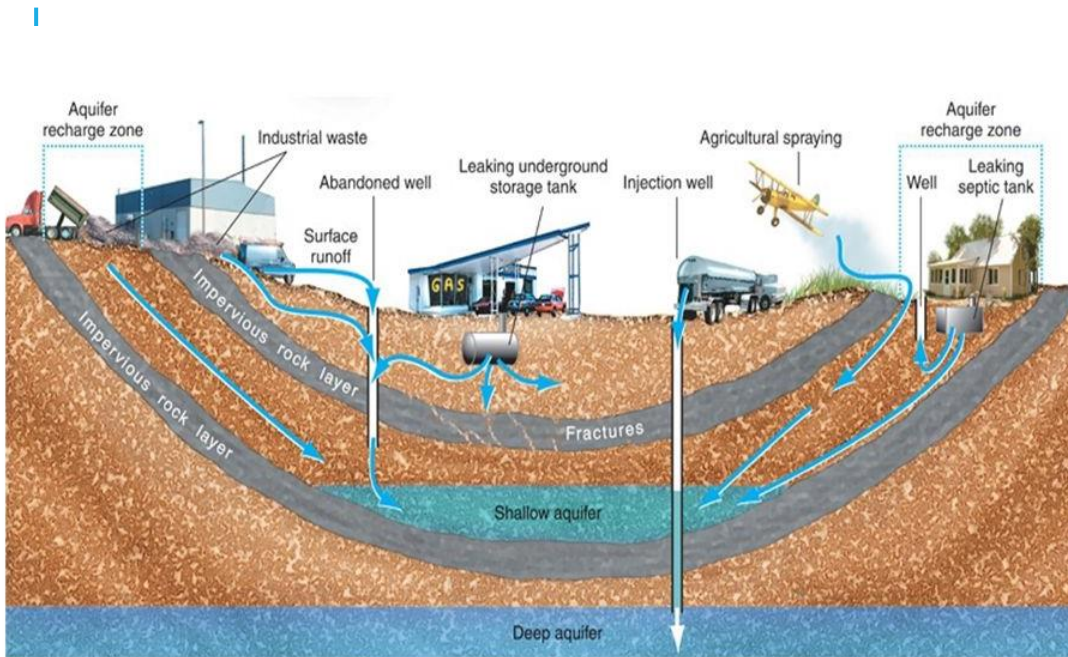
Almost all the ways that we use water contributes to water pollution.

- What are some ways that we use water?

Wastewater is water that contains wastes from homes or industry.

At a wastewater treatment plant, water is filtered and treated to make the water clean enough to return to a river or lake.

<https://www.youtube.com/watch?v=YW6GBciRHLg>



Pollutants usually enter groundwater when polluted surface water percolates down from the Earth's surface.

Pesticides, herbicides, chemical fertilizer, petroleum products, septic tanks, and unlined landfills are common groundwater pollutants.

GROUNDWATER POLLUTION

OCEAN POLLUTION

Pollutants are often dumped directly into the ocean, but at least 85 percent of ocean pollution, including pollutants such as oil, toxic wastes, and medical wastes, comes from activities on land, near the coasts.

What very important coastal type of ecosystem will this hurt the most?



ARTIFICIAL EUTROPHICATION

Artificial eutrophication is a process that increases the amount of nutrients in a body of water through human activities.

In bodies of water containing larger amounts of phosphorus and nitrogen, populations of algae can rapidly grow and form algal blooms.

Large patches of algae reduce sunlight for aquatic plants, which causes them to die.

As the algae and plants die, bacteria decompose their dead bodies. This process uses up dissolved oxygen. This causes fish and other organisms to suffocate in the oxygen-depleted water.



MORE THAN JUST A DROP IN THE OCEAN

- Already dead
- Areas of concern

Dead zones are rapidly increasing as oceans warm

- They are caused by excess nutrients and warming waters.
- The zones can suffocate fish, squid and other marine life.
- There are more than 400 ocean dead zones in the world's seas.
- Waters around Tasmania and near Perth were recently included on the list.

