

Water Pollution: An Overview

Pradhan Evanjali

Citation: Pradhan Evanjali. Water Pollution: An Overview. J Environ Chem Toxicol. 2021; 5(1):1-1

EDITORIAL

What Is Water Pollution

When there are pollutants, water is commonly referred to as contaminated. It also does not promote human use, such as drinking water, due to these toxins. Water pollution is the contamination of water bodies, usually as a result of human activities. Water bodies include, for example, lakes, ponds, rivers, oceans, aquifers and groundwater. Water pollution is harmful for our health. Water pollution results when contaminants are introduced into the natural environment. Unsafe water kills many people each year than war and other kind of violence combined. Our drinkable water source is infinite, but when harmful substances, often chemicals or microorganism, contaminate a stream, river, lake, ocean, aquifer, or other body of water, degrading water quality and rendering it toxic to humans or the environment. When rain falls and seeps deep into the earth, ponds and rivers become ground water, one of the most important resources. Sewage is another name for wastewater from domestic and industrial processes.

Causes of water pollution

The key sources of water contamination are the disposal of agricultural and household waste, leakage from water reservoirs, marine disposal, toxic waste and ozone deposition. In lakes and waterways, heavy metals that have been disposed of and agricultural waste can accumulate, appearing to be toxic to humans and animals.

Effects of water pollution

In humans, drinking or consuming polluted water in any way has many disastrous effects on our health. It causes typhoid, cholera, hepatitis and various other diseases. Ecosystems are extremely dynamic and respond to even small changes in the environment.

Types of water pollution source

There are three main categories of water pollution such as: point-source, nonpoint-source and trans-boundary.

Point-source

Point source water contamination is characterized as pollutants from a single, recognizable source, such as a pipe, entering a waterway. Sources in this group include, for example, discharges from a wastewater treatment facility, an industrial plant, a mill, a city storm drain, etc.

Non-point sources

Pollution from non-point sources describes the transmission of pollution that does not come from a single separate source.

Disadvantages of water pollution

As a result of non-biodegradable pesticides and pollutants, marine life is lost. The microbial community is influenced by water contamination. There is a sharp spike in water BOD temperatures.

Water treatment

Water treatment is a process that improves the water quality to make it a specific use-end. Water treatment removes undesirable and contaminant components. In order to make the water suitable for its intended end-use or reduce its concentration. This therapy is important to human wellbeing and facilitates both drinking and irrigation use to support humans.

Drinking water treatment

The processing of drinking water requires removing toxins and/or inactivating any potentially harmful bacteria from raw water to produce water that is sufficiently pure for human consumption without any risk of adverse health effects in the short or long term. In general terms, the highest microbial risks are associated with water consumption that is tainted by human or animal pollution (including water intake).

Department of Microbiology, Mits School of Biotechnology, India.

Correspondence: Pradhan E, Department of Microbiology, Mits School of Biotechnology, India e-mail: eva.sikha008@gmail.com

Received: January 02, 2021, Accepted: January 18, 2021, Published: January 25, 2021



This open-access article is distributed under the terms of the Creative Commons Attribution Non-Commercial License (CC BY-NC) (<http://creativecommons.org/licenses/by-nc/4.0/>), which permits reuse, distribution and reproduction of the article, provided that the original work is properly cited and the reuse is restricted to noncommercial purposes. For commercial reuse, contact reprints@pulsus.com