Chapter

[Name of the Writer]

[Name of the Institution]

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***What is sustainable water use?***

Sustainable water use is the sensible utilization of water resources, without affecting the important functioning of the hydrologic cycle.

***What are the benefits of dams on the Columbia River? The drawbacks?***

There are many benefits of dams on the Colombia River. They provide hydroelectricity, water for irrigation, flood control, navigation, and recreation. There are no as such drawbacks of dams on the Colombia river but dams damage the environment and the cost of building dams is very high.

***How can individuals conserve and manage water resources?***

There are different ways by which an individual can conserve and manage water resources. Use water according to the requirement and try to turn off the water when you are not using it. Replace high flow showers with low flow fixtures to conserve water. Sweep outdoor areas instead of washing them and repair all the leaking pipes to conserve water.

***What problems are associated with overdrawing surface water? With aquifer depletion?***

If too much water is withdrawn then the water will remain very less for the natural system which is one of the problems that is associated with overdrawing surface water. The problem which is associated with aquifer depletion is that it drops the water table.

***What issues surround the water problems of the Ogallala Aquifer? The Colorado River Basin?***

Ogallala Aquifer is known as the biggest groundwater deposit in the world. However, it has been observed that it has been misused from decades by farmers. The excess use of water by farmers have affected badly the level of water. The Colorado River Basin is also one of the biggest rivers in the world which provides almost water to 30 million people.

***How does international cooperation affect shared water resources?***

According to the research, about three fourth of the world's 200 water resources are being shared between different nations and International cooperation has the responsibility to protect the supply of water resources and shared equally among each nation. International cooperation is required and it is very important because it helps to conserve the water resources.

***What is water pollution?***

When the groundwater, rivers, and lakes are polluted due to harmful chemicals and bacteria they cause water pollution. It happens when waste products are thrown directly into the clean water.

***What is biochemical oxygen demand? How is BOD related to sewage?***

Biochemical oxygen demand is a measure of the quantity of oxygen that is being used by microorganisms. BOD is used to specify the strength of sewage.

***How does point source pollution differ from nonpoint source pollution? What are some examples of each?***

Point source pollution releases pollutants from a single source while non-point source pollution release pollutants from several distinct sources. Water that is discharging from an industrial plant is an example of point sources while non-point sources include chemicals into rivers or oceans.

***What are some common sources of groundwater pollutants?***

Some common sources of groundwater pollutants include chemicals, fuels, fertilizers, detergents, and air pollution.

***How is most drinking water purified in the United States?***

In united states, most drinking water is purified with the help of chemical coagulant. It helps to remove the floating particles and filter the water from microorganisms.

***What are the stages in municipal sewage treatment? What happens in each stage?***

There are several stages that are involved in municipal sewage treatment which include primary treatment stage, secondary treatment stage, and tertiary treatment stage. In the primary treatment stage, floating particles are removed from wastewater with the help of mechanical process. In the secondary treatment stage, floating particles are removed from wastewater using biological treatment. In the tertiary treatment stage, floating particles are removed using advanced wastewater treatment.

***How has the safe drinking water act affected US water supplies? How has the clean water act affected them?***

The purpose of safe drinking water is to create federal standards that are essential to make sure the safety of water supplies. The safe drinking water act affected US water supplies in a way that they are not able to receive proper water supplies in different states. On the other side, the clean water act affected the United States in a way that it affected the quality of rivers, aquifers, and coastal waters. However, it has helped the united states in improving the quality of water.