How does a reservoir work

water supply system, infrastructure for the collection, transmission, treatment, ...

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Reservoirs are a vital part of our hydrological cycle and infrastructure. They play an important role in managing water resources, generating renewable electricity, and providing essential services for people, animals, and the environment. But what is a reservoir? What are its purpose and types? To understand reservoirs more fully, it is essential first to define them and then discuss the types and functions of reservoirs.

Reservoirs are man-made storage systems that capture and store water for future use. They are usually constructed by damming a river to form an artificial lake and are designed to control water flow from a source to a destination. The purpose of reservoirs is to provide a reliable water source for drinking, irrigation, hydropower, and other uses.

Reservoirs are vital for managing water resources and preventing flooding. By regulating water flow from the source, reservoirs can help prevent flooding in downstream areas. They can also store excess water during periods of heavy rain and drought, thus providing a reliable water source for drinking, agriculture, and other uses.

Reservoirs come in many different shapes and sizes and can serve different purposes. Some reservoirs are designed to store large volumes of water for long periods, while others are designed to store smaller amounts of water for short periods. Let"s look at the various types of reservoirs and their functions.

Surface storage reservoirs are the most common type of reservoir. These reservoirs are created by constructing a dam or weir on a natural water course, allowing the water to be contained in a large pool. Once the pool is created, water can be stored in it for many purposes, including flood control, hydroelectric power generation,

irrigation, and drinking and domestic water supply.

Subsurface storage reservoirs are reservoirs constructed below the ground surface. These reservoirs are commonly used to store industrial wastewater and stormwater runoff. The water is stored in an impermeable underground aquifer and is managed through pumps and injection wells.

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