Water Management

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Safe drinking water is often taken for granted in various areas of the United States. Safe drinking water is a privilege for people around the world, however, the floods and drought represents the state of water resources. The incident of Flint, Mich indicated human activities regarding the importance of water. It has been observed that waterborne diseases are rising significantly. The statement is confirmed by the Centers for Disease Control and prevention and water-borne outbreaks have been reported in recent years (“U.S. Water Use,” n.d.). Water quality in Maryland cannot be compromised. It has been reported that various laws in the standards of water quality management are violated and water resources are polluted.

According to a report, water scarcity has increased due to which plant desalination is also rising in the countries. According to the International Desalination Association, 300 million people receive water through desalination plants (“As Water Scarcity Increases, Desalination Plants Are on the Rise,” n.d.). Desalination plants are not established according to the needs and requirement of people. It has been proposed that the reservoir of Colorado supplies water to San Diego, however, in the coming years, it would not be able to supply water to San Diego and the conviction is paramount. De-sal is a process by which salt water is desalinated to make it useable for the consumption of mankind, however, various human activities and the increased use of de-sal water has proposed that water requirement would not be fulfilled in near future with desalination plants (“As Water Scarcity Increases, Desalination Plants Are on the Rise,” n.d.).

The desalination thermal method is a method in which water is heated and then condensed and reverse osmosis process occurred that forces seawater to move from very small membranes. This process traps the salts present in the water and the water is purified to be used by humans. This process involves the production of greenhouse gases and that ultimately causes global warming. Also, energy is required in large amounts to desalinate water.

Maryland consumes 6527 million gallons in a day. The higher level of fertilizers, higher amount of industrial byproducts are directly drained in the seas and rivers, therefore, water resources are destroyed by human activities on a large scale (“U.S. Water Use,” n.d.). Major water problems in Maryland included the presence of hard water that is the accumulation of calcium and magnesium in higher amounts in the water and is not drinkable. Water is a universal solvent and it dissolves everything in it. Therefore, it dissolves iron and manganese and cause rusty patches on clothes and makes water polluted ("How Do We Get Our Drinking Water In The U.S.?" n.d.). Chlorine is used as a disinfectant and is causing water pollution in Maryland as a higher amount of chlorine is used nowadays (“As Water Scarcity Increases, Desalination Plants Are on the Rise,” n.d.). Waterborne diseases are rising and bacteria and viruses are present in water that can directly infect persons. Fertilizers and industrial waste products are drained in the rivers and seas that cause an enormous amount of water pollution. Water deposits, sediments, and bad odor water is accumulated in Maryland water resources that are harmful for human health.

Several human activities such as irrigation, industrial withdrawals, mining, aquaculture and domestic and livestock by-products have produced water pollution in the country (Brown & Matlock, 2017). I was not aware of these facts that water pollution has been drastically effecting our health. We should have to reconsider the policies, water management strategies and industrial laws to follow them to save water resources for the future (Brown & Matlock, 2017). Human activities have significantly reduced water resources and almost every water resource is damaged which is ultimately highlighting that prompt actions should be taken to save remaining water resources to prevent ourselves from water scarcity.

# References

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