Water Pollution Detection System

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Abstract

Nowadays Internet of Things and Remote Sensing techniques are used in different areas to monitor, collect and analyze data from remote locations. This technology is implantable in the water pollution system in this project. Water being an essential need for human survival there must be mechanisms put in place to vigorously test the quality of water available for drinking in any country, town or city articulated supplies surrounding these regions. Due to the vast increase in global industrial output, rural to urban drift and overutilization of land and sea resources, the quality of water available to people has deteriorated greatly. High use of fertilizers in farms and also other chemicals in sectors such as mining and construction have immensely contributed to the overall reduction of water quality globally. Availability of good quality water is paramount in preventing outbreaks of water- borne disease as well as improving the quality of life. The focus of this project is to design and develop a system to enhance control of water pollution and its effects from affecting a larger population. The water pollution detection system will effectively send a notification to the authorities that a specific water catchment area is under pollution. The notifications will always be timely thus being effective in water pollution control. Use case diagram will be used to show representations of users' interaction with the system and thus will effectively portray the relationship between the user and different ways to be employed by the user in solving the water pollution control problem.

Keywords: water pollution, system, disease