

Heavy Metal Contamination in River Cauvery- A Case Study Of Tiruchirappalli District, Tamil Nadu

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Abstract

Water is an essential component of our day to-day activities. The present study is conducted to assess the Cauvery water suitability for drinking and domestic purpose in and around Trichy Cauvery River, Tamilnadu. Ten Cauvery river water samples are collected from in and around Tiruchirappalli District. The current study aimed to determine five heavy metals such as Cu, Zn, Mn, Pb and Fe using Atomic Absorption Spectrophotometer. The study was conducted on river Cauvery at the Tiruchirappalli regions of Tamil Nadu during postmonsoon season (2021). It was observed that copper and lead were above the permissible limits (WHO 2011). The presence of heavy metals in river water represents a serious environmental issue. Wastewater from various industries and other sources must be treated before discharge into the river. Awareness must be spread among the industrial workers, cleaners, municipality workers, and peoples living in and around the studied areas.

Keywords:

Heavy metals, Contamination, Cauvery River, Industrial effluents, anthropogenic activities.