



## Physico-chemical Characteristics of Groundwater in and Around Tirunelveli Corporate Dumpsite

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**Abstract:** Groundwater samples were collected from 40 locations near Tirunelveli corporation dumpsite, Tamilnadu and water quality assessment was carried out for various parameters. From this study, it is evident that there is a considerable amount of variation in water quality parameters among the locations by leachate and rocky aquifer below the dumpsite. The high concentration of dissolved solids (above 3000 mg/l) in groundwater is making it unsuitable for domestic and agricultural purpose. The systematic calculation of correlation coefficient between water quality parameters and regression analysis provides an easy and rapid monitoring of water quality of the dumpsite region.

**Keywords:** Groundwater quality, physicochemical parameter, Dumpsite, Regression equation

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