Quality Of Jajjar Nalla and Painthal Nalla Waters of Udhampur District, Jammu Himalaya, in Relation to Human Consumption and Agricultural Use

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ABSTRACT

Ten water samples, each from Jajjar and Painthal nallas, Udhampur district, J&K were analysed for Ca, Mg, Na, K, Fe, Mn, Ni, Cu, Zn and Pb using Atomic Absorption Spectrophotometer. In both streams, all the elements were present within the permissible limits except Fe and Mn which were found higher according to Bureau of Indian Standard (1991) and WHO (1984). Sulphates, bicarbonates and nitrates were all found in safer levels and as such the waters of both these streams are considered fit for human consumption and also for agriculture. For irrigation purposes all the cations were present in safer levels and cannot be considered harmful. Total Dissolved Salts (TDS), Total Hardness (TH), conductivity and pH are all present in safer levels. Low values of SAR and SSP are both favourable indicators for using the waters of the streams for irrigation. The higher turbidity values in both the streams are objectionable.

Key words : Conductivity, Polluting elements in water of Jajjar and Painthal Nallas of J&K, TDS, Water Quality.