

Evaluation of Major and Minor Components in Dakahlia Water Resources for Drinking Purposes

Authors : R. A. Mandour

Abstract : The physical, chemical, and microbiological analyses of fifty Quaternary water samples representing the different types of drinking water (surface and wells) in the governorate were carried-out. This paper aims to evaluate the drinking water in Dakahlia governorate in comparison with the national and international standards as a step to handle water pollutants affecting human health in this governorate. All investigated water samples were chemically considered suitable for drinking except two samples for iron, two samples for lead and one water sample for manganese having values higher than the permissible limit of EMH and WHO. Also microbiologically there were five water samples having a high total count of bacteria and three samples having high coli form than the permissible limit of EMH. Obviously, groundwater samples from Mit-Ghamr, El-Sinbillawin and Aga districts of Dakahlia governorate should have special attention for treatment.

Keywords : major ions, minor elements, microbiology, EMH, WHO

Conference Title : ICWPC 2015 : International Conference on Water Pollution and Control

Conference Location : Paris, France

Conference Dates : February 23-24, 2015