



Adsorption of Metal on Clay Sample as a Function of pH

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Abstract: The rate of adsorption of copper, manganese, iron, chromium and phosphorous were determined as a function of pH on different clay samples collected from agricultural farmland in Ekiti- State. All the clay samples adsorbed the metal ions reasonably. The results obtained shows that the rate of adsorption of the metal examined increases as pH increased from 8-12, Cu has the highest concentration while Fe has the least concentration. There is variation in the rate of adsorption of the metals on various agricultural farmlands; this is attested to by the various coefficient of variation. The percentage organic carbon and fine sand are reasonably high enough to assist adsorption of the various metals adequately.

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