













- Soils: Evidence for Atmosphere Contamination. *The Science of Total Environment*. 312:195-210.
- [14] Huu, H.H., Rudy, S., Damme, A.V., 2010. Distribution and contamination status of heavy metals in estuarine sediments near Cau Ong harbor, Ha Long Bay, Vietnam. *Geol. Belgica*, 13(1-2): 37-47.
- [15] Jassim, S. Z., and Goff, J., 2006. *Geology of Iraq*. Dolin, Prague, 341 P.
- [16] Logan, T.J., and Miller R. H., 1983. Background levels of heavy metals in Ohio farm soils. *Soil contamination analysis. Res. Circ. Ohio Agric. Res. Dev. Ctr. Wooster* 275:3-15.
- [17] Mielke, J.E., 1979. Composition of the Earth's crust and distribution of the elements. In: Siegel, F.R. (Ed.), *Review of Research on Modern Problems in Geochemistry*. UNESCO Report, Paris: 13-37.
- [18] Mmolawa, K., Likuku, A., and Gaboutloeloe, G., 2011. Assessment of heavy metal pollution in soils along roadside areas in Botswana. *African Journal of Environmental Science and Technology*, 5(3):186-196.
- [19] Muller, G., 1969. Index of geoaccumulation in sediments of the Rhine River, *J. Geol.*, 2: 108-118.
- [20] Muller, G., 1981. The heavy metal pollution of the sediments of Neckars and its tributary. *A Stocktaking ChemischeZeit*, 150: 157-164.
- [21] Oliver, M. A., Loveland, P. J., Frogbrook, Z. L., Webster, R., and McGrath, S. P., 2002. Statistical and geostatistical analysis of the National Soil Inventory of England and Wales. Final Report to Department of Environment, Food and Rural Affairs- DEFRA, available from the National Soil Resources Institute, Cranfield University.
- [22] Onishi, H. 1969. Arsenic. In: *Handbook of geochemistry*. II-1. Wedepohl, K. H. (Ed). New York: 33-B to 33-O.
- [23] Reimann, C. and De Caritat, P., 1998. *Chemical elements in the environment*. Berlin: Springer Verlag, 398p.
- [24] Reimann, C., Filzmoser, P. and Garrett, R.G., 2005. Background and threshold: critical comparison of methods of determination. *Science of the Total Environment*, 346: 1-16.
- [25] Sissakian, V .k., 1993. The geology of Kirkuk Quadrangle Sheet NI-38-2 scale 1:250000., State Organization of Minerals, General Directorate for Geological Survey and Mineral Investigation, Iraq, Baghdad.
- [26] Stollenwerk, K. G. and D. B. Grove. 1985. Adsorption and desorption of hexavalent chromium in an alluvial aquifer near Telluride, Colorado. *J. Environ. Qual.* 14:150-155.
- [27] Taylor, S. R. and McLennan S. M., 1985: *The Continental Crust: Its Composition and Evolution*. Blackwell, Oxford, 312p.
- [28] Taylor, S. R. and McLennan S. M., 1995: The geochemical evolution of the continental crust; *Rev. Geophys.* 33: 241-265.
- [29] Tomlinson, D.L., Wilson, J. G., Haris, C. R., and Jeffrey, D. W., 1980: Problems in the assessment of heavy metal levels in estuaries and the formation of a pollution index. *Helgol. Wiss. Meeresunters*, 33: 566-575.
- [30] Zachara, J. M., D. C. Girvin, R. L. Schmidt and C. T. Resch. 1987. Chromate adsorption on amorphous iron oxyhydroxide in presence of major ground water ions. *Environ. Sci. Technol.* 21:589-594.